

Shri Sai Janvikas Pratisthan's B.ED COLLEGE



ALANI TQ- OSMANABAD DIST- OSMANABAD (MAHARASHTRA)

(Affiliated To Dr. Babasaheb Ambedkar Marathwada University, Aurangabad)

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Detailed Document on Program Outcomes (POs) and Course Outcomes (COs) Integration into Curriculum

SSJP B.Ed College, Alani

1. Introduction

SSJP B.Ed College, Alani, is dedicated to fostering excellence in teacher education by equipping student-teachers with the knowledge, skills, and attitudes required to excel in diverse educational settings. The Bachelor of Education (B.Ed) program adopts an outcome-based education (OBE) framework, ensuring that Program Outcomes (POs) and Course Outcomes (COs) are systematically integrated into the curriculum. This document provides a comprehensive overview of the POs, COs, their alignment with the curriculum, implementation strategies, assessment mechanisms, and continuous improvement processes, adhering to NCTE guidelines and global best practices in teacher education.

2. Vision and Mission of SSJP B.Ed College, Alani

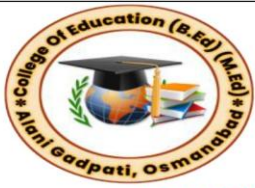
- **Vision:** To be a premier institution in teacher education, producing innovative, inclusive, and socially responsible educators who transform lives through quality education.
- **Mission:**
 - To deliver a competency-based B.Ed curriculum that integrates theoretical knowledge with practical skills.
 - To foster reflective practices, technological proficiency, and ethical values among student-teachers.
 - To promote inclusive education and community engagement for sustainable societal development.

3. Program Outcomes (POs)

The B.Ed program is designed to achieve the following Program Outcomes, which define the competencies expected of graduates upon completion:

1. PO1: Pedagogical Competence


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- Demonstrate expertise in subject-specific pedagogy, instructional strategies, and classroom management to facilitate effective and engaging learning experiences.
- Apply learning theories to design curricula that cater to diverse learner needs.

2. PO2: Professional Development

- Exhibit reflective practices, lifelong learning, and adherence to professional ethics in educational settings.
- Collaborate with peers, mentors, and stakeholders to enhance professional growth.

3. PO3: Inclusive Education

- Design and implement inclusive teaching strategies that address diversity in gender, socio-economic status, cultural backgrounds, and special needs.
- Promote equity and accessibility in education through differentiated instruction.

4. PO4: Technological Integration

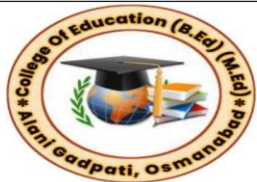
- Leverage Information and Communication Technology (ICT) tools, such as e-learning platforms, smart boards, and educational software, to enhance teaching and learning.
- Develop digital literacy and integrate technology for interactive and innovative pedagogy.

5. PO5: Social Responsibility

- Foster values of global citizenship, environmental sustainability, and social justice through educational practices.
- Engage with communities to address societal challenges through awareness campaigns and service-learning projects.

6. PO6: Research and Innovation


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- Apply research-based approaches to solve educational challenges and improve teaching practices.
- Design innovative pedagogical interventions informed by action research and educational trends.

4. Curriculum Framework

The B.Ed program at SSJP B.Ed College, Alani, is a two-year, full-time course structured under the Choice-Based Credit System (CBCS), comprising 80-100 credits as per NCTE norms. The curriculum is divided into four semesters, integrating theoretical courses, practical components, internships, and community engagement activities. The components include:

- **Core Courses** (40% of credits): Foundations of Education, Psychology of Learning and Development, Pedagogy of School Subjects (e.g., Mathematics, Science, Social Studies, Languages).
- **Elective Courses** (20% of credits): ICT in Education, Inclusive Education, Guidance and Counseling, Environmental Education, Health and Physical Education.
- **Practicum** (20% of credits): Micro-teaching, Simulated Teaching, Lesson Planning, Teaching Aids Preparation.
- **School Internship** (15% of credits): 16-week internship in partner schools, including observation, teaching practice, and co-curricular activities.
- **Community Engagement** (5% of credits): Projects on social issues, environmental campaigns, and community service initiatives.

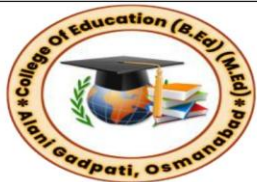
Each course is assigned specific COs, which are mapped to POs to ensure holistic development of competencies.

5. Course Outcomes (COs) and Mapping with POs

Below is a detailed description of COs for selected courses, along with their alignment to POs. The mapping uses a scale: **H** (High), **M** (Moderate), **L** (Low) to indicate the contribution of COs to POs.

5.1. Course: Foundations of Education (Semester I, 4 Credits)


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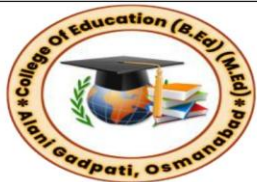
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- **Course Objectives:** To understand the philosophical, sociological, and psychological foundations of education and their implications for teaching.
- **COs:**
 - **CO1:** Analyze the impact of philosophical theories (e.g., Idealism, Pragmatism) on educational practices. (PO1-H, PO2-M)
 - **CO2:** Evaluate the role of education in addressing social inequalities and promoting equity. (PO3-H, PO5-H)
 - **CO3:** Apply psychological principles (e.g., Piaget's cognitive development) to design learner-centered curricula. (PO1-H, PO6-M)
 - **CO4:** Discuss the historical evolution of education in India and its relevance to modern policies. (PO2-M, PO5-M)
- **Teaching Methods:** Lectures, group discussions, case studies, reflective journals.
- **Assessment:** Written exams (50%), assignments on educational thinkers (20%), group presentations (20%), reflective essays (10%).

5.2. Course: Pedagogy of Mathematics (Semester II, 4 Credits)

- **Course Objectives:** To develop competency in teaching mathematics using innovative and constructivist approaches.
- **COs:**
 - **CO1:** Design lesson plans incorporating constructivist strategies (e.g., 5E model) for teaching mathematical concepts. (PO1-H, PO3-M)
 - **CO2:** Integrate ICT tools (e.g., GeoGebra, Desmos) to enhance conceptual understanding in mathematics. (PO4-H)
 - **CO3:** Develop formative and summative assessment tools to evaluate mathematical learning. (PO1-H, PO6-M)
 - **CO4:** Address common misconceptions in mathematics through remedial teaching strategies. (PO1-M, PO3-H)
- **Teaching Methods:** Demonstration, micro-teaching, ICT-based simulations, problem-solving workshops.


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- **Assessment:** Lesson plan portfolio (30%), micro-teaching sessions (30%), ICT project (20%), written exam (20%).

5.3. Course: Inclusive Education (Semester III, 3 Credits)

- **Course Objectives:** To equip student-teachers with skills to address diverse learner needs in inclusive classrooms.
- **COs:**
 - **CO1:** Identify diverse learner needs, including students with disabilities, through diagnostic assessments. (PO3-H)
 - **CO2:** Design differentiated instructional strategies (e.g., Universal Design for Learning) for inclusive classrooms. (PO1-H, PO3-H)
 - **CO3:** Promote gender sensitivity and cultural inclusivity through classroom activities. (PO3-H, PO5-H)
 - **CO4:** Collaborate with special educators and parents to support inclusive education. (PO2-M, PO5-M)
- **Teaching Methods:** Case studies, role-plays, guest lectures by special educators, field visits to inclusive schools.
- **Assessment:** Case study analysis (30%), inclusive lesson plan (30%), group project on inclusivity (20%), reflective journal (20%).

5.4. Course: School Internship (Semester IV, 8 Credits)

- **Course Objectives:** To provide hands-on teaching experience in real classroom settings.
- **COs:**
 - **CO1:** Deliver 40 lesson plans across two school subjects, demonstrating effective teaching and classroom management. (PO1-H, PO2-H)
 - **CO2:** Reflect on teaching experiences to identify strengths and areas for improvement. (PO2-H, PO6-H)
 - **CO3:** Organize co-curricular activities (e.g., science fairs, debates) to enhance student engagement. (PO3-M, PO5-H)


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- **CO4:** Collaborate with school staff and community members to foster holistic education. (PO2-M, PO5-H)
- **Teaching Methods:** Supervised teaching, peer observation, mentor feedback, reflective seminars.
- **Assessment:** Lesson delivery (40%), internship report (30%), e-Portfolio (20%), mentor evaluation (10%).

5.5. Mapping Matrix (Sample for Foundations of Education)

COs PO1 PO2 PO3 PO4 PO5 PO6

CO1 H M

CO2 H H

CO3 H M

CO4 M M

Similar matrices are developed for all courses to ensure comprehensive coverage of POs.

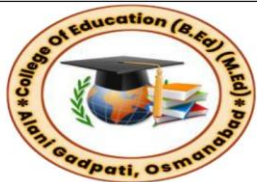
6. Integration Strategies

The integration of POs and COs into the curriculum is achieved through a multi-faceted approach, ensuring alignment across design, delivery, and evaluation.

6.1. Curriculum Design

- **Alignment with Standards:** The curriculum adheres to NCTE's B.Ed framework, incorporating POs derived from national and global teacher education standards (e.g., UNESCO's ICT Competency Framework).
- **CO-PO Mapping:** Each course syllabus explicitly lists COs, their mapping to POs, and corresponding assessment methods.
- **Progressive Development:** Courses are sequenced to build competencies progressively, e.g., Foundations of Education (Semester I) lays the groundwork for Pedagogy courses (Semester II).


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- **Interdisciplinary Approach:** Elective courses like Environmental Education link POs (PO5) with cross-disciplinary themes.

6.2. Teaching-Learning Process

- **Active Learning:** Methods like flipped classrooms, cooperative learning, and problem-based learning target COs related to pedagogy (PO1) and inclusivity (PO3).
- **Experiential Learning:** Micro-teaching, simulations, and internships provide practical exposure to achieve PO1 and PO2.
- **Technology Integration:** Smart classrooms, Moodle, and tools like Kahoot and Padlet support PO4. For example, students create digital lesson plans using Canva.
- **Reflective Practices:** Students maintain reflective journals and participate in post-lesson debriefs to achieve PO2 and PO6.
- **Inclusive Pedagogy:** Faculty model inclusive teaching by using Universal Design for Learning (UDL) principles, ensuring COs related to PO3 are met.

6.3. Assessment and Evaluation

- **Outcome-Based Assessments:** Assignments, projects, and exams are aligned with COs using Bloom's Taxonomy levels (Remember, Understand, Apply, Analyze, Evaluate, Create).
 - Example: In Pedagogy of Mathematics, students create a GeoGebra-based teaching aid (Create level) to assess CO2 (PO4).
- **Rubrics:** Detailed rubrics map assessment tasks to COs and POs, ensuring fairness and transparency. For instance, a lesson plan rubric evaluates content knowledge (PO1), inclusivity (PO3), and ICT use (PO4).
- **Formative and Summative Assessments:**
 - **Formative:** Peer reviews, quizzes, and micro-teaching feedback provide ongoing insights into CO attainment.
 - **Summative:** Semester exams, internship evaluations, and e-Portfolios measure overall PO achievement.


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- **e-Portfolio:** Inspired by practices like those at SJSU's MLIS program, students compile an e-Portfolio showcasing artifacts (e.g., lesson plans, teaching videos, reflections) linked to POs. This serves as a culminating assessment.
- **Authenticity:** Assessments simulate real-world teaching tasks, such as developing IEPs for inclusive learners (PO3) or conducting action research (PO6).

6.4. Practicum and Experiential Learning

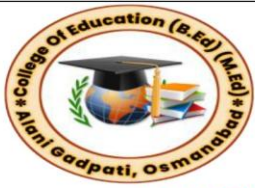
- **Micro-Teaching:** Students practice specific teaching skills (e.g., questioning, explanation) in controlled settings, targeting PO1.
- **Simulated Teaching:** Role-plays and virtual classroom simulations prepare students for diverse scenarios (PO3).
- **School Internship:** A 16-week internship includes:
 - 40 lesson deliveries across two subjects.
 - Co-curricular activity organization (e.g., debates, sports).
 - Community engagement projects (e.g., literacy drives).
 - Reflective journals and mentor feedback to achieve PO2 and PO6.
- **Community Engagement:** Projects like environmental awareness campaigns or health workshops align with PO5, fostering social responsibility.

6.5. Faculty Development

- **Training Programs:** Faculty attend workshops on OBE, ICT integration, and inclusive education to deliver COs effectively.
 - Example: Training on Google Classroom enhances PO4 delivery.
- **Lesson Plan Alignment:** Faculty submit lesson plans mapping activities to COs and POs, reviewed by the Curriculum Committee.
- **Research Support:** Faculty are encouraged to conduct action research, contributing to PO6 and curriculum innovation.

6.6. Stakeholder Involvement


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- **Students:** Participate in curriculum feedback surveys and focus groups to refine COs and teaching methods.
- **Alumni:** Provide insights on industry relevance, ensuring POs align with professional demands.
- **Partner Schools:** Collaborate during internships, offering feedback on student-teacher preparedness (PO1, PO2).
- **Parents and Community:** Engage in community projects, reinforcing PO5.

7. Assessment Framework

The attainment of POs and COs is evaluated through a robust assessment framework combining direct and indirect methods.

7.1. Direct Assessment

- **Course-Level Assessment:**
 - Exams and assignments measure CO attainment.
 - Example: A 70% score threshold indicates CO achievement.
- **Program-Level Assessment:**
 - Internship evaluations assess PO1, PO2, and PO5.
 - e-Portfolio reviews evaluate all POs through artifacts and reflections.
- **Rubric-Based Scoring:** Standardized rubrics ensure consistency, e.g., a micro-teaching rubric scores delivery (PO1), inclusivity (PO3), and reflection (PO2).

7.2. Indirect Assessment

- **Student Surveys:** Conducted each semester to gauge perceived CO attainment and curriculum effectiveness.
- **Alumni Feedback:** Collected annually to assess PO relevance in professional settings.
- **Employer Feedback:** Gathered from partner schools to evaluate graduate performance against POs.


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- **Exit Surveys:** Administered at program completion to capture student satisfaction and self-assessed competency.

7.3. Attainment Calculation

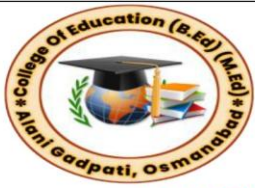
- **CO Attainment:**
 - Formula: Percentage of students scoring $\geq 70\%$ in CO-aligned assessments.
 - Example: If 80% of students score $\geq 70\%$ in CO1 of Foundations of Education, CO1 is achieved.
- **PO Attainment:**
 - Weighted average of CO attainments mapped to each PO.
 - Example: PO1 attainment = (CO1 attainment \times 0.5 + CO3 attainment \times 0.5) for Foundations of Education.
- **Threshold:** PO attainment $\geq 80\%$ is considered successful, with gaps addressed through curriculum revisions.

7.4. Culminating Experience

- **e-Portfolio:** Students submit a digital portfolio in Semester IV, including:
 - Lesson plans (PO1, PO3).
 - ICT-based teaching aids (PO4).
 - Reflective essays on professional growth (PO2).
 - Community project reports (PO5).
 - Action research findings (PO6).
- **Portfolio Rubric:** Scores artifacts on a 1–5 scale across POs, ensuring comprehensive evaluation.
- **Oral Defense:** Students present their portfolios to a panel, defending their competency achievement.

8. Continuous Improvement


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SSJP B.Ed College, Alani, adopts a Plan-Do-Check-Act (PDCA) cycle for continuous improvement:

1. Plan:

- Curriculum Committee sets annual improvement goals based on PO attainment data and stakeholder inputs.
- Example: If PO4 attainment is low, plan additional ICT training workshops.

2. Do:

- Implement changes, such as new ICT tools or revised COs) on a pilot basis.

3. Check:

- Analyze CO and PO attainment data, student feedback, and survey results to evaluate impact.
- Example: Compare PO4 attainment pre- and post-intervention.

4. Act:

- Institutionalize successful changes or revise strategies for underperforming areas.
- Example: Update syllabus to include new ICT tools like Nearpod if effective.

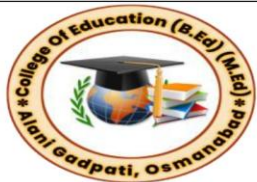
• Annual Review:

- Curriculum Committee meets annually to review attainment data, stakeholder feedback, and NCTE updates.
- Reports are submitted to the Academic Council for approval.

8.1. Feedback Loops

- **Student Feedback:** Collected via online surveys (Google Forms) and suggestion boxes, analyzed bi-semesterially.
- **Faculty Feedback:** Monthly meetings discuss CO delivery challenges and solutions.


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- **External Feedback:** Annual advisory board meetings with school principals and education experts ensure curriculum relevance.

9.2. Documentation

- **Quality Assurance:** All COs, assessments, and attainment data are documented in a centralized Learning Management System (LMS) like Moodle.
- **Audit Trail:** Curriculum revisions, feedback reports, and committee minutes are archived for NCTE inspections.

9. Expected Outcomes

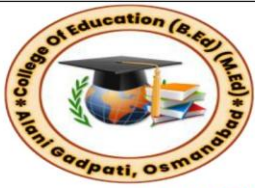
The integration of POs and COs into the curriculum aims to produce B.Ed graduates who:

- Excel in delivering learner-centered, inclusive education (PO1, PO3).
- Embrace technology to enhance teaching and learning (PO4).
- Reflect critically on their practice and pursue lifelong learning (PO2).
- Contribute to social justice and environmental sustainability through education (PO5).
- Innovate teaching methods through research-driven approaches (PO6).

10. Implementation Support

- **Infrastructure:**
 - Smart classrooms with projectors, interactive whiteboards, and high-speed internet.
 - Computer labs with software like GeoGebra, MATLAB, and Moodle.
 - Library with access to e-resources (e.g., JSTOR, NCTE journals).
- **Human Resources:**
 - Qualified faculty with M.Ed./Ph.D. degrees, trained in OBE and ICT.
 - Guest lecturers from inclusive schools and research institutes.
- **Partnerships:**


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- MoUs with local schools for internships and community projects.
- Collaboration with NGOs for ICT training and inclusive education workshops.
- **Budget:**
 - Annual allocation for faculty development (₹5 lakh), ICT upgrades (₹3 lakh), and curriculum evaluation (₹2 lakh).
 - Scholarships for meritorious and economically disadvantaged students to promote PO3.

11. Challenges and Mitigation

- **Challenge:** Limited faculty expertise in ICT.
 - **Mitigation:** Conduct regular training programs and hire ICT consultants.
- **Challenge:** Resistance to OBE adoption.
 - **Mitigation:** Sensitize faculty through OBE workshops and provide mentorship.
- **Challenge:** Ensuring inclusive education in rural schools.
 - **Mitigation:** Partner with NGOs to provide resources and training for partner schools.


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