D Y PATIL EDUCATION SOCIETY DEEMED TO BE UNIVERSITY, KOLHAPUR

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STRATEGIES TO INCREASE STUDENT ENGAGEMENT

v1.0



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STRATEGIES & TOOLS TO INCREASE STUDENT ENGAGEMENT
D Y PATIL EDUCATION SOCIETY DEEMED UNIVERSITY, KOLHAPUR

Below is a concise list of some strategies and tools used to increase student engagement at the graduate and postgraduate levels at the D Y Patil Education Society Deemed to be University Kolhapur.

These are tailored to foster active participation, critical thinking, and relevance to healthcare education, considering the Indian academic context and global best practices.

STRATEGIES TO INCREASE STUDENT ENGAGEMENT

1. Active Learning Techniques:

- Use problem-based learning (PBL) and case-based discussions to encourage students to solve real-world healthcare scenarios (e.g., diagnosing complex cases or designing public health interventions).

- Implement flipped classrooms in form of Student Seminars, Journal presentations etc., where students review lecture material before class and use class time for discussions, simulations, or group work.

2. Interdisciplinary and Collaborative Learning:

- Encourage teamwork across disciplines (e.g., medical, nursing, and pharmacy students collaborating on a community health project).

- Offer interprofessional education (IPE) modules on ethics, research etc to simulate healthcare team dynamics.

- Joint conduct of Research Methodology Workshop, GCP-ICH guidelines for students from Nursing, Physiotherapy and Medical College with interactive sessions.

- inter-disciplinary teaching in subjects like basic sciences across all healthcare and allied programs.

3. Technology-Enhanced Learning:

- Integrate virtual simulations and augmented reality (AR) for clinical skills training (e.g., virtual surgery or patient interaction simulations).Mandatory training in simulation before access to operative procedures in the theatre are followed. All healthcare

students are trained in Basic Life Support, Advanced Cardiac Life Support & Advanced Trauma Life Support .

- Provision of learning resources through easily available QR Codes in library, Digital Library and Departments

- Use gamification, such as quizzes with leaderboards, crosswords, or scenario-based apps, to make learning interactive.

4. Student-Centered Feedback and Involvement:

- Collect regular, anonymous feedback via surveys to understand student needs and adjust teaching methods.

- Involve students in university quality initiatives through focus groups and student representatives in academic committees, institutional quality assurance committee and the anti-ragging committees.

5. Experiential and Community-Based Learning:

- Incorporate clinical rotations, internships, to connect theory with practice.

- Incorporate exposure to rural India through compulsory and voluntary rural postings and modules within the curriculum

- Encourage service-learning projects, such as health awareness campaigns in local communities.

- Example: Assign postgraduate students to lead a health screening camp in a rural area.

6. Research and Innovation Opportunities:

- Engage students in research projects, journal clubs, or innovation challenges to foster critical thinking.

- Provide mentorship for publishing papers or presenting at conferences. The Research Guidance Cell will provide support, statistical analysis, and other forms of facilitative services to students desiring to publish their work.

- Provide students a platform to publish their work in the University journal the MJDYPU,

7. Personalized Learning and Mentorship:

- Offer elective courses or flexible pathways to align with student interests within the boundaries of regulatory councils.

- Offer Value added courses to students to explore areas other than within the approved syllabus.

- Assign faculty mentors to guide academic and career goals under the University Moral Guidance Scheme or (UMGS).

- Offer supportive services of Psychometric testing, a Counsellor, and Psychologist in addition to Faculty-mentors, and also faculty from department of Psychiatry where required.

- Example: Allow postgraduate students to choose a specialty-focused elective in their final year.

8. Inclusive and Culturally Relevant Content:

- Include diverse case studies and perspectives relevant to India's multicultural population.

- Address local health challenges, like tropical diseases or rural healthcare access, in the curriculum. Example: Use case studies on managing dengue outbreaks in urban slums

- Promote inclusivity through activities of the University Bioethics Unit, the Anti-Ragging committee and the Internal Complaints Committee to sensitize and guide students through sensitive areas of university experiences.

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TOOLS TO SUPPORT ENGAGEMENT

1. Learning Management Systems (LMS):

- JUNO: University LMS customized to needs of our students in collaboration with JUNO (formerly GEMS) is provided to each student. Accessible at all hours, in all locations, the LMS provides access to learning resources, discussion forum, results, attendance tracking, feedback links, etc for students.

- Moodle: Host course materials, quizzes, and discussion forums to facilitate asynchronous engagement.

2. Simulation and Virtual Reality Tools:

- CAE Apollo, Lucina and Luna are high-fidelity mannequins for clinical skills practice.

- LapVR & EndoVR - Enable virtual reality surgical training for postgraduate students.

- Blue Phantom allow for interventional procedural training under USG monitoring and guidance

- ViaMedix a sonography simulator allows for training for pelvic, abdominal and chest USG as well as for 2D Echocardiography.

- Learning Space Essentials allows for video recording of all team scenarios with immediate review and feedback for students.

3. Virtual Platforms

- A dedicated youtube Channel hosts recorded guest lectures as well as out-of-syllabus faculty lectures for students.

4. Collaboration Tools:

- Microsoft Teams/Google Meet: Host virtual group projects or guest lectures by industry experts.

- Zoom platform is available to host Webinars for all learners.

5. E-Portfolios and Reflective Tools:

- E-Logbooks have been started – phase 1 has been implemented with PG students from 11 medical programs. These allow record and reflection for students.

6. Open Educational Resources (OER):

- SWAYAM; Access peer-reviewed teaching resources for health sciences.

- Khan Academy Medicine: Use free videos for foundational concepts.

- Use: Assign OER videos as pre-class material for flipped classrooms.

7. Analytics and Feedback Tools:

- SurveyMonkey/Google Forms/Microsoft Forms: Collect student feedback on courses and teaching.

- Turnitin: Ensure academic integrity while providing feedback on assignments.

- Use: Run a semester-end survey to assess engagement levels.

Implementation background

- Training: University ensures that faculty are trained to use these tools and strategies effectively through workshops.

- Infrastructure: University is committed to invest in reliable internet, simulation labs, and software licenses, considering India's diverse university settings.

- Evaluation: Plans are on to measure engagement through metrics like class participation, assignment completion rates, and student satisfaction surveys.

- Accessibility: University is committed to provide offline options for students in resource-constrained areas.

This list combines evidence-based strategies and practical tools to engage graduate and postgraduate h students, fostering both academic success and professional readiness.

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