



2.3.1: Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experience and teachers use ICT- enabled tools including online resources for effective teaching and learning process

NMIMS – Deemed to be University across its schools are using various ICT enabled tools and student centric methods such as experiential learning, participative learning and problem solving methodologies for enhancing learning experience. Some of these innovative approaches include:

1. Experiential Learning:

- Hands-on projects, internships, and real-world case studies are integral to the curriculum. This method allows students to apply theoretical knowledge to practical situations, thereby enhancing their understanding and problem-solving skills. All the programmes offered at different schools and departments in the University has internships.
- Laboratories, simulation tools, and industry visits provide exposure to practical aspects of various disciplines.

2. Participative Learning:

- Group projects, collaborative assignments, and discussions encourage students to actively engage with their peers and faculty. This fosters teamwork, leadership, and communication skills, essential for professional growth and this also one of the assessment tool in internal continuous evaluation.
- Online forums, webinars, and interactive platforms are used to enhance collaboration among students.

3. Problem-Solving Methodologies:

- Case-based learning and project-based assessments help students develop critical thinking and analytical skills. Real-life industry problems are introduced as part of the curriculum to enhance their ability to tackle complex issues.
- Tools like design thinking workshops and hackathons enable students to brainstorm, analyse, and propose innovative solutions.
- All the programmes offered by department of Engineering and Technology, Architecture and Management is using problem solving teaching pedagogies and tools.

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4. ICT-Enabled Tools:

- **Learning Management Systems (LMS) like student portal** is extensively used to provide access to course materials, recorded lectures, assessments, and forums. All announcements are made through student portal including the results declaration. The faculty members upload all the relevant study material for reference by the students.
Online Assessments and Quizzes allow for regular tracking of student progress and provide immediate feedback.
- **Virtual Labs and Simulation Tools** for practical subjects help students gain practical exposure without needing a physical presence in laboratories.
- **Flipped Classroom Approach:** Students can access lectures and study material online before class, with in-class time dedicated to discussions and problem-solving activities.

These methods not only enhance learning outcomes but also prepare students for industry demands by promoting active participation, critical thinking, and the application of knowledge.

Mapping of Teaching Pedagogy with Courses of B.Pharm+MBA

Course	Teaching Pedagogy
Human Anatomy and Physiology I	White Chart Presentation, Flip Classroom
Pharmaceutical Inorganic Chemistry	Group Discussion, Power Point Presentation
Pharmaceutics I	Quiz, Presentation (Video / PowerPoint / Class Activities)
Remedial Biology	Poster presentation, Panel Discussion
Pharmaceutical Analysis – Practical	Participative Learning, Case Study, Laboratory demonstration
Biochemistry - Theory	Open book Assignment, Quiz
Pharmaceutical Microbiology	Industrial visit, Laboratory demo
Principles of Management	White Chart Presentation, Flip Classroom, Debate
Pharmaceutical Jurisprudence	Quiz, Presentation (Video / PowerPoint / Class Activities), Open Book Assignment
Pharma Environment	Presentation

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Outcome/Impact:

The implementation of ICT-enabled tools and student-centric methodologies, such as experiential learning, participative learning, and problem-solving techniques at NMIMS, has led to a range of positive outcomes. These approaches significantly enhance the learning experience by promoting active student engagement and enabling a deeper understanding of subject matter through hands-on activities and real-world applications. With personalized learning supported by Learning Management Systems (LMS) and AI-powered analytics, students benefit from continuous feedback and tailored support, improving their academic performance. The integration of group projects and collaborative discussions fosters the development of essential teamwork, leadership, and communication skills, while case-based learning and problem-solving activities sharpen critical thinking and innovation. Moreover, students are better prepared for the workforce, gaining industry-relevant knowledge through internships, projects, and exposure to real-life challenges. Familiarity with digital tools and virtual platforms ensures that they are technologically adept, a vital asset in today's digital economy. As a result, retention and completion rates are improved, contributing to the university's broader goals of achieving accreditation and quality benchmarks. Ultimately, NMIMS equips its students with the academic knowledge, practical experience, and skills required to excel in their careers, making them industry-ready professionals capable of adapting to and thriving in dynamic environments.

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Extract from Multi-campus coordination campus portal (Dashboard)


Diiferent Pedagogical - ICT Tools used in School of Pharmacy & Technology Management

Points	Pharmaceutical Engineering - Theory			Physical Pharmaceutics I - Theory			Pharmaceutical Microbiology -			Physical Pharmaceutics I - Practical			Principles of Management		
	SCHOOL OF PHARMACY TECH MGMT (SHIRP)	SCHOOL OF PHARMACY TECH MGMT(MUM)	School of Pharmacy Tech. Mgmt- Hyderabad	SCHOOL OF PHARMACY TECH MGMT(MUM)	SCHOOL OF PHARMACY TECH MGMT (SHIRP)	School of Pharmacy Tech. Mgmt- Hyderabad	SCHOOL OF PHARMACY TECH MGMT (SHIRP)	School of Pharmacy Tech. Mgmt- Hyderabad	SCHOOL OF PHARMACY TECH MGMT(MUM)	SCHOOL OF PHARMACY TECH MGMT (SHIRP)	SCHOOL OF PHARMACY TECH MGMT(MUM)	School of Pharmacy Tech. Mgmt- Hyderabad	SCHOOL OF PHARMACY TECH MGMT(MUM)	SCHOOL OF PHARMACY TECH MGMT (SHIRP)	School of Pharmacy Tech. Mgmt- Hyderabad
Evaluation / ICA-Date ICA	24-09-2024	24-09-2024	, 2024-08-10, 2024-09-24, 2024-10-04							14-09-2024	20-09-2024	09-09-2024	19-09-2024	19-09-2024	19-09-2024
Evaluation / ICA-% ICA Completed	, 50	, 50	, 15, 50, 60							, 50	, 50	, 50	, 0, 33	, 33	, 33
Evaluation / ICA-Marks Shared	1st sessional is yet to be conducted, N.A, Not yet	1st Sessional to be conducted on 24.09.2024, N.A, Not yet	N.A, Not yet, Shared, With in 4-5 days with Students	Not Applicable	Not Applicable	Not Applicable	NA	NA	NA	N.A, YES	N.A, YES	N.A, YES	N.A, Yes	N.A, Yes	N.A, Yes
Faculty Observations---	Few queries on Sessional question papers discussed. Strategy for paper evaluation accordingly., N.A, Students taking interest with application based learning	N.A, Students taking interest with application based learning	Few queries on Sessional question papers discussed. Strategy for paper evaluation accordingly., "Limited availability of books for students. e-Books of Pharmaceutics are also not available." 3 ICAs conducted in this duration as 27.7.24 (Class Test) 10.8.24 (Class Test 2) 23.8.24 (Presentation), Students perfomed very well in first sessional exam around 80% students have secured above 80% of marks, Students taking interest with application based learning	None	None	None	6 experiments completed in 24 sessions , 8 experiments completed in 32 sessions	6 experiments completed in 24 sessions , 8 experiments completed in 32 sessions	6 experiments completed in 24 sessions , 7 experiments completed in 28 sessions	N.A	N.A	N.A	Enthusiastic students and amazing faculties at both campuses. Looking forward to learning from them with their vast experience. , Great team work and helpful , None	Good coordination among all three faculties. , Great team work and helpful , NA, None	Great team work and helpful , None, students are found Enthusiastic and participative
New Pedagogy-Faculty	Power point presentation, videography, equipment demonstration for sieves and cyclone separator	Power point presentation, videography, equipment demonstration for sieves and cyclone separator	Power point presentation	None	None	None	No	No	No	N.A	N.A	N.A	Case study on responsibilities of a Manager. Completed 13 hours and module 2 over , Completed 26 hours of sessions. 4 full modules completed and one small part of module 4 pending. , None. Completed 16 hours of syllabus and started module 3, None. Completed 4 hours of Teaching and 75% of Module 1	Completed 16 hours of teaching and 60% of Syllabus , Completed 16 hours of teaching and 60% of Syllabus. Same as last time , Completed 24 hours and all the modules. Major assignment presentations will be done in 1st week post Diwali, Same status as last meeting	Completed 3 modules and 15 hours of workload. 2 full modules pending. Taking Major presentations simultaneously. , Completed 4 hours of Teaching and 75% of Module 1 , Completed 8 hours of Teaching. Completed Module 1 and started Module 2 , None. Completed 10 hours of teaching



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New Pedagogy-Pedagogy Used	N.A, Power Point presentation, pdf of references, Power point presentation, videography, equipment demonstration for sieves and cyclone separator	N.A, Power point presentation and videography, Power point presentation, videography, demonstration for sieves and cyclone separator	Class presentation, Critical thinking based learning, Power point presentation, Self assesses class test (Class was divided in 2 groups getting different questions for 10 marks, 30 min time. After time answer copies were shuffled between groups, ideal answer and assessment parameters were mentioned to the students and they were asked to assess their classmates paper. Finally the given marks were individually cross checked and discussed by the faculty with appropriate remark. 2 mark additional for proper evaluations.)	Slides, Reference books, quizzes during tutorial	Slides, Reference books, quizzes during tutorial	Slides, Reference books, quizzes during tutorial	demonstrations of various staining methods by online videos	No	No	N.A	N.A	N.A	Class discussions, Format for Major and Minor assignments for ICA , N.A, None	Format for Major and Minor assignments for ICA , N.A, None	Format for Major and Minor assignments for ICA , N.A, None
Other Common Remark-Other Common Remark	Shirpur Campus attended the MPC 1 (Pharmaceutical Engineering-Theory). Not able add him as his name is not showing in the LMS portal, Due to the academic schedules, Finding a common slot for meetings is tough hence, mostly one or two people couldn't manage time to attend the same even having a full intension to do so. If we can manage to have	(Pharmaceutical Engineering-Theory). Not able add him as his name is not showing in the LMS portal, Due to the academic schedules, Finding a common slot for meetings is tough hence, mostly one or two people couldn't manage time to attend the same even having a full intension to do so. If we can manage to have	Considering the current status of the Syllabus completion in Mumbai and Shirpur campuses the Second sessional syllabus is reduced to 15 h instead of 20 h content, Shirpur Campus attended the MPC 1 (Pharmaceutical Engineering-Theory). Not able add him as his name is not showing in the LMS portal, Due to the academic schedules, Finding a common slot for meetings is tough hence, mostly one or two people couldn't manage time to attend the same even having a full intension to do so. If we can manage to have some defined time for MPCs aligning with the academic schedule, it might help resolve the issue. , Syllabus for sessional 1 & 2 were finalized as "Sessional 1: Unit 1 & 2 (20 h) Sessional 2: Unit 3 (Drying), Unit 4, 5, 6 (20 h) Unit 2 (Heat Transfer) Convection derivations are not covered by Mumbai campus and hence not keeping the	. Bachelor of Pharmacy - 7280 shows incorrect program anchor, no course anchor, incorrect attendees tagged. 3. Multiple campus selection other than parent campus not available on portal. Showing internal error. 4. Syllabus for sessional 1 was finalized as Unit 1 and Unit 2 (Till real solutions). 5. Question paper pattern was discussed with respect to level	2. Bachelor of Pharmacy - 7280 shows incorrect program anchor, no course anchor, incorrect attendees tagged. 3. Multiple campus selection other than parent campus not available on portal. Showing internal error. 4. Syllabus for sessional 1 was finalized as Unit 1 and Unit 2 (Till real solutions). 5. Question paper pattern was discussed with respect to level	2. Bachelor of Pharmacy - 7280 shows incorrect program anchor, no course anchor, incorrect attendees tagged. 3. Multiple campus selection other than parent campus not available on portal. Showing internal error. 4. Syllabus for sessional 1 was finalized as Unit 1 and Unit 2 (Till real solutions). 5. Question paper pattern was discussed with respect to level	No	No	NO	, we have planned the experiments to be completed before first sessional examination. Experiment 1,3,4,5,12,13 and 14 will be in the first sessional examination.	Ms. Shambhavi Shahi and Ms. Drashti Patel also present in the meeting., we have planned the experiments to be completed before first sessional examination. Experiment 1,3,4,5,12,13 and 14 will be in the first sessional examination.	N.A, we have planned the experiments to be completed before first sessional examination. Experiment 1,3,4,5,12,13 and 14 will be in the first sessional examination.	Discussion on the questions for the final exams including the levels of difficulty., Discuss some Questions and level of difficulty while framing the questions for midterm exam. We put forward the topics and outlined likely question pattern and topics., To make the projects interesting all 3 campuses agreed on to a	Discussion on the questions for the final exams including the levels of difficulty., Discuss some Questions and level of difficulty while framing the questions for midterm exam. We put forward the topics and outlined likely question pattern and topics., To make the projects interesting all 3 campuses agreed on to a	Discussion on the questions for the final exams including the levels of difficulty., Discuss some Questions and level of difficulty while framing the questions for midterm exam. We put forward the topics and outlined likely question pattern and topics., To make the projects interesting all 3 campuses agreed on to a
Pace with Course Outline---	In accordance with course outline, In accordance with the course outline , N.A	In accordance with course outline, In accordance with the course outline , N.A	In accordance with course outline, In accordance with the course outline	In accordance to syllabus, Not Applicable	In accordance to syllabus, Not Applicable	In accordance to syllabus, Not Applicable	In accordance with course out lines	In accordance with course out lines	In accordance with course out lines	As per Course Outline, N.A	As per Course Outline , N.A	As per Course Outline, N.A	Normal, Normal speed, On track	Normal, Normal. Same status as last before term end, Normal, Normal Speed, Normal. Will complete module 2 before mid term exam.	2 modules pending. Should be over before term end, Normal, Normal Speed, Normal. Will complete module 2 before mid term exam.


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Resources Shared---	12.07.24 , N.A, the Drive link of the resources is shared, containing reference pdfs, powerpoints along with some video links	N.A, Reference presentations and references of Books from library, Size Separation: 13.07.2024	15/07/2024 , PPTs, Study material and e-books, Shared	PPT, Reference material, links, PPT, Reference material, links, Syllabus for sessional 1	PPT, Reference material, links, PPT, Reference material, links, Syllabus for sessional 1	PPT, Reference material, links, PPT, Reference material, links, Syllabus for sessional 1	resources not shared among the faculty but shared among the students on 8,15,22,29th July, 5, 12, 19, 26th Aug 2024, resources not shared among the faculty but shared among the students on 8,15,22,29th July, 5, 12th Aug 2024	27, 30 July ,August 6,13, 20, 2024, No	No	Resources for all the experiments shared at the beginning of the semester across all campuses. Student are getting the PDF of respective experiment 2-3 days before the day of experiment., Shared module of physical pharmaceutics I across campuses	Resources for all the experiments shared at the beginning of the semester across all campuses and with student printed module. , Shared module of physical pharmaceutics I across campuses	Resources for all the experiments shared at the beginning of the semester across all campuses. Student are getting the PDF of respective experiment 2-3 days before the day of experiment., Shared module of physical pharmaceutics I across campuses	Entire PPTs which will be used in Mumbai campus. Shared with esteemed faculties. To be shared further with the respective campus students. Module 1 PPT will be shared with Mumbai Campus students next week after completion. , Module 2 shared with students , N.A, None	Common PPT are shared with shirpur campus. Same status as last time , N.A, None	Communication from CA is Entire PPTs which will be used in Mumbai campus to be shared with me. Module 1 PPT to be shared with Hyderabad Campus students after completion. , Module 1 PPT shared with students, N.A, None

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