

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:

- O 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.
- o 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.
- o 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.

SVKM'S

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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 announcement 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.
- o **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 problemsolving 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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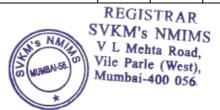
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Points	81							chnology Manag		Dharatas	Thomas country	Duantinal	T		
ruiits	SCHOOL OF	SCHOOL OF	ngineering - Theory School of Pharmacy Tech. Mgmt-	SCHOOL OF	Physical Pharmaceutics I		SCHOOL OF	School of	SCHOOL OF	SCHOOL OF	Pharmaceutics I - Practical		Principles of N SCHOOL OF SCHOOL O		School of
	PHARMACY	PHARMACY	Hyderabad	PHARMACY	SCHOOL OF PHARMACY	School of Pharmacy	PHARMACY	Pharmacy	PHARMACY	PHARMACY	PHARMACY	Pharmacy Tech.	PHARMACY	SCHOOL OF PHARMACY	Pharmacy
	TECH MGMT	TECH	11,46.4556	TECH	TECH MGMT	Tech. Mgmt-	TECH MGMT	Tech. Mgmt-	TECH	TECH MGMT	TECH	Mgmt-	TECH	TECH MGMT	Tech. Mgmt-
	(SHIRP)	MGMT(MUM)		MGMT(MUM)	(SHIRP)	Hyderabad	(SHIRP)	Hyderabad	MGMT(MUM)	(SHIRP)	MGMT(MUM)	Hyderabad	MGMT(MUM)	(SHIRP)	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	1st Sessional to	N.A, Not yet, Shared, With in 4-5	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
	yet to be	be conducted on	days with Students								, i		,	,	,
	conducted,	24.09.2024, N.A,													
	N.A, Not yet	Not yet													
Faculty Observations	Few queries on	N.A, Students	Few queries on Sessional question	None	None	None	6 experiments	6 experiments	6 experiments	N.A	N.A	N.A	Enthusiastic	Good	Great team
	Sessional	taking interest	papers discussed. Strategy for	Tronc		110110	completed in	completed in	completed in				students and	coordination	work and
	question	with application	paper evaluation accordingly.,				24 sessions , 8	24 sessions , 8	24 sessions , 7				amazing	among all three	helpful , None,
	papers	based learning	"Limited availability of books for				experiments	experiments	experiments				faculties at	faculties.,	students are
	discussed.		students. e-Books of				completed in	completed in	completed in				both	Great team	found
	Strategy for		Pharmaceutics are also not				32 sessions	32 sessions	28 sessions				campuses.	work and	Enthusiastic
	paper		available." 3 ICAs conducted in this										Looking	helpful , NA,	and
	evaluation		duration as 27.7.24 (Class Test)										forward to	None	participative
	accordingly.,		10.8.24 (Class Test 2) 23.8.24										learning from		
	N.A, Students taking interest		(Presentation), Students perfored very well in first sessional exam										them with their vast		
	with		around 80% students have secured										experience.,		
	application		above 80% of marks, Students										Great team		
	based learning		taking interest with application										work and		
			based learning										helpful , None		
New Pedagogy-Faculty	Power point	Power point	Power point presentation	None	None	None	No	No	No	N.A	N.A	N.A	Case study on	Completed 16	Completed 3
	presentation,	presentation,											responsibilities	hours of	modules and
	videography,	videography,											of a Manager.	teaching and	15 hours of
	equipment	equipment											Completed 13 hours and	60% of Syllabus	
	demonstration	demonstration											module 2 over ,	, Completed 16	
	for sieves and cyclone	for sieves and											Completed 26	hours of teaching and	pending. Taking Major
	separator	cyclone separator											hours of	60% of	presentations
	Separator	зерагатог											sessions. 4 full	Syllabus. Same	simultaneously
													modules	as last time ,	, Completed 4
													completed and one small part of	Completed 24	hours of
													module 4	hours and all	Teaching and
													pending., None.	the modules.	75% of Module
													Completed 16	Major	1 , Completed
													hours of syllabus	assignment	8 hours of
													and started	presentations	Teaching.
			· ·										module 3, None. Completed 4	will be done in	Completed
		A~~											hours of	1st week post	Module 1 and
		11000											Teaching and	Diwali, Same status as last	started Module 2 , None.
													75% of Module 1	meeting	Completed 10
														meeting	hours of
		REGI	STRAR												teaching
		SVKM	NMIMO												
	9 NM	V L Mai	NMIMS												
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		- Landal	700 U3 6 .												

Points	Pharmaceutical Engineering - Theory			Physical Pharmaceutics I - Theory			Pharmaceutical Microbiology -			Physical Pharmaceutics I - Practical			Principles of Management		
	SCHOOL OF	SCHOOL OF	School of Pharmacy Tech. Mgmt-	SCHOOL OF	SCHOOL OF	School of	SCHOOL OF	School of	SCHOOL OF	SCHOOL OF	SCHOOL OF	School of	SCHOOL OF	SCHOOL OF	School of
	PHARMACY	PHARMACY	Hyderabad	PHARMACY	PHARMACY	Pharmacy	PHARMACY	Pharmacy	PHARMACY	PHARMACY	PHARMACY	Pharmacy Tech.	PHARMACY	PHARMACY	Pharmacy
	TECH MGMT	TECH		TECH	TECH MGMT	Tech. Mgmt-	TECH MGMT	Tech. Mgmt-	TECH	TECH MGMT	TECH	Mgmt-	TECH	TECH MGMT	Tech. Mgmt-
	(SHIRP)	MGMT(MUM)		MGMT(MUM)	(SHIRP)	Hyderabad	(SHIRP)	Hyderabad	MGMT(MUM)	(SHIRP)	MGMT(MUM)	Hyderabad	MGMT(MUM)	(SHIRP)	Hyderabad
New Pedagogy-Pedagogy Used	N.A, Power	N.A, Power point	Class presentation, Critical thinking	Slides,	Slides,	Slides,	demonstratio	No	No	N.A	N.A	N.A	Class	Format for	Format for
	Point	presentation and	based learning, Power point	Reference	Reference	Reference	ns of various						discussions,	Major and	Major and
	presentation,	videography,	presentation, Self assesses class	books, quizes	books, quizes	books, quizes	staining						Format for	Minor	Minor
	pdf of	Power point	test (Class was diviced in 2 groups	during tutorial	during tutorial	during tutorial	methods by						Major and	assignments	assignments
	references,	presentation,	getting different questions for 10				online videos						Minor	for ICA , NA,	for ICA , N.A,
	Power point	videography,	marks, 30 min time. After time										assignments	N.A, None	None
	presentation,	equipment	answer copies were shuffled										for ICA , N.A,		
	videography,	demonstration	between groups, ideal answer and										None		
	equipment	for sieves and	assessment parameters were												
	demonstration	cyclone	mentioned to the students and												
	for sieves and	separator	they were asked to assess their												
	cyclone		classmates paper. Finally the given												
	separator		marks were individually cross checked and discussed by the												
			faculty with appropriate remark. 2												
			mark additional for proper												
			evaluations.)												
			,	_	_										
	Shirpur Campus	(Pharmaceutical	Considering the current status of	. Bachelor of	2. Bachelor of	2. Bachelor of	No	No	NO	, we have	Ms. Shambhavi	N.A, we have	Discussion on	Discussion on	Discussion on
Remark	attended the	Engineering-	the Syllabus completion in Mumbai	Pharmacy - 7280 shows	Pharmacy - 7280 shows	Pharmacy - 7280 shows				planned the	Shahi and Ms.	planned the	the questions	the questions	the questions
	MPC 1	Theory). Not	and Shirpur campuses the Second	incorrect	incorrect	incorrect				experiments to	Drashti Patel also		for the final	for the final	for the final
	(Pharmaceutica	able add him as	sessional syllabus is reduced to 15	program	program	program				be completed	present in the	be completed	exams	exams	exams
	l Engineering-	his name is not	h instead of 20 h content, Shirpur Campus attended the MPC 1	anchor, no	anchor, no	anchor, no				before first sessional	meeting., we have planned	before first sessional	including the levels of	including the levels of	including the levels of
	Theory). Not able add him as	showing in the LMS portal, Due	(Pharmaceutical Engineering-	course anchor,	course anchor,	course anchor,				examination.	the experiments	examination.	difficulty.,	difficulty.,	difficulty.,
	his name is not	to the academic	Theory). Not able add him as his	incorrect	incorrect	incorrect				Experiment	to be completed	Experiment	Discuss some	Discuss some	Discuss some
	showing in the	schedules,	name is not showing in the LMS	attendees	attendees	attendees				1,3,4,5,12,13	before first	1,3,4,5,12,13	Questions and	Questions and	Questions and
	LMS portal, Due	Finding a	portal, Due to the academic	tagged. 3.	tagged. 3.	tagged. 3.				and 14 will be in	sessional	and 14 will be in	level of	level of	level of
	to the academic	_	schedules, Finding a common slot	Multiple	Multiple	Multiple				the first	examination.	the first	difficulty while	difficulty while	
	schedules,	meetings is	for meetings is tough hence,	campus selection other	campus selection other	campus selection other				sessional	Experiment	sessional	framing the	framing the	framing the
	Finding a	tough hence,	mostly one or two people couldn't	than parent	than parent	than parent				examination.	1,3,4,5,12,13	examination.	guestions for	questions for	questions for
	common slot	mostly one or	manage time to attend the same	campus not	campus not	campus not					and 14 will be in		midterm exam.	midterm exam.	midterm exam
	for meetings is	two people	even having a full intension to do	available on	available on	available on					the first		We put	We put	We put
	tough hence,	couldn't manage	so. If we can manage to have some	portal. Showing	portal. Showing	portal. Showing					sessional		forward the	forward the	forward the
	mostly one or	time to attend	defined time for MPCs aligning	internal error.	internal error.	internal error.					examination.		topics and	topics and	topics and
	two people	the same even	with the academic schedule, it	4. Syllabus for	4. Syllabus for	Syllabus for							outlined likely	outlined likely	outlined likely
	couldn't	having a full	might help resolve the issue.,	sessional 1 was	sessional 1 was	sessional 1 was							question	question	question
	manage time to	intension to do	Syllabus for sessional 1 & 2 were	finalized as Unit	finalized as Unit	finalized as Unit		1					pattern and	pattern and	pattern and
	attend the	so. If we can	finalized as "Sessional 1: Unit 1 & 2	1 and Unit 2 (Till real	1 and Unit 2 (Till real	1 and Unit 2 (Till real		1				ĺ	topics., To	topics., To	topics., To
	same even	manage to have	(20 h) Sessional 2: Unit 3 (Drying),	solutions). 5.	solutions). 5.	solutions). 5.		1				ĺ	make the	make the	make the
	having a full	some defined	Unit 4, 5, 6 (20 h) Unit 2 (Heat	Question paper	Question paper	Question paper		1				ĺ	projects	projects	projects
	intension to do	time for MPCs	Transfer) Convection derivations	pattern was	pattern was	pattern was		1				ĺ	interesting all 3	interesting all 3	interesting all
	so. If we can	aligning with the	are not covered by Mumbai	discussed with	discussed with	discussed with							campuses	campuses	campuses
	manage to have	academic	campus and hence not keeping the	respect to level	respect to level	respect to level	ļ	 	1.				agreed on to a	agreed on to a	agreed on to a
Pace with Course Outline	In accordance	In accordance	In accordance with course outline,	In accordance	In accordance	In accordance	In accordance	In accordance	In accordance	As per Course	As per Course	As per Course	Normal,	Normal,	2 modules
	with course	with course	In accordance with the course	to syllabus,	to syllabus,	to syllabus,	with course	with course	with course	Outline, N.A	Outline , N.A	Outline, N.A	Normal speed,	Normal. Same	pending.
	outline, In accordance	outline, In accordance with	outline	Not Applicable	Not Applicable	NOT Applicable	out lines	out lines	out lines			ĺ	On track	status as last meeting,	Should be ove before term
		the course						I				ĺ		٠,	end, Normal,
	with the course outline, N.A	outline , N.A						1				ĺ		Normal speed but ahead in	Normal Speed
	outime, N.A	outilie , N.A			0			1				ĺ		the number of	Normal Speed
		1			,,			1				ĺ		hours., On	complete
				MARIA											
				Ares										track	module 2 before mid



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

