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Admissions open 2023

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PHARMACEUTICAL SCIENCES

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> [Pharmaceutical Sciences Home \(pharmacy.php\)](#)> [Board of Studies \(pharmabos.php\)](#)> [Principal's Message \(pharmahodmsg.php\)](#)> [People \(pharmafaculty.php\)](#)> [Infrastructure \(pharmainfra.php\)](#)> [Research \(pharmaresearch.php\)](#)> [Events \(pharmaevents.php\)](#)> [Achievements \(pharmaachieve.php\)](#)> [SIF Report \(pdf/SIF Report.pdf\)](#)> [Committees \(pharmacommitees.php\)](#)> [Student Category Wise \(pdf/Student_category_wise.pdf\)](#)**Programme Description****Programme Structure****Programme Enquiry**Need help? Let's chat
with us!

Programme Educational Objectives (PEOs)

PEO 1: Provide sufficient knowledge of various aspects of Pharmacy making the students globally relevant.

PEO 2: Give exposure to each sector of pharmaceutical industry, providing them an opportunity to identify and solve their shortfalls.

PEO 3: Inculcate honesty, dedication, commitment and responsibility towards the duties rendered in their respective fields.


PEO 4: Promote employability, entrepreneurship and contribute for global economic development.

PEO 5: Evolve as a complete individual with constructive thoughts and leadership qualities.

Programme Specific Outcomes (PSOs)

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PSO1-Pharmaceutical product development: Apply the knowledge of manufacturing, formulation and quality control of various pharmaceutical and cosmetic products in the form of powders, tablets, capsules, parenteral, solutions, suspensions, emulsions, creams, lotions and aerosols etc.

 (<https://www.youtube.com/channel/UCzDKwPH7h79xDSOUgGSwjPQ>)

PSO2-Invention and Entrepreneurship: Find the application of modern tools to integrate health care systems, design an effective product with commercial advantage and societal benefit, perform risk analysis and become entrepreneur.

Programme Outcomes (POs)

The graduates of Electrical & Electronics Engineering will be able to:

PO1-Pharmacy Knowledge: Possess knowledge and comprehension of the core and basic knowledge associated with the profession of pharmacy, including biomedical sciences; pharmaceutical sciences; behavioural, social, and administrative pharmacy sciences; and manufacturing practices.

PO2-Planning Abilities: Demonstrate effective planning abilities including time management, resource management, delegation skills and organizational skills. Develop and implement plans and organize work to meet deadlines.

PO3-Problem analysis: Utilize the principles of scientific enquiry, thinking analytically, clearly and critically, while solving problems and making decisions during daily practice. Find, analyze, evaluate and apply information systematically and shall make defensible decisions.

Modern tool usage: Learn, select, and apply appropriate methods and procedures, resources, and

modern pharmacy-related computing tools with an understanding of the limitations.

PO5-Leadership skills: Understand and consider the human reaction to change, motivation, issues, leadership and team-building when planning changes required for fulfilment of practice, professional and societal responsibilities. Assume participatory roles as responsible citizens or leadership roles when appropriate to facilitate improvement in health and wellbeing.

PO6-Professional Identity: Understand, analyze and communicate the value of their professional roles in society (e.g. health care professionals, promoters of health, educators, managers, employers, employees).

PO7-Pharmaceutical Ethics: Honour personal values and apply ethical principles in professional and social contexts. Demonstrate behaviour that recognizes cultural and personal variability in values, communication and lifestyles. Use ethical frameworks; apply ethical principles while making decisions and take responsibility for the outcomes associated with the decisions.

PO8-Communication: Communicate effectively with the pharmacy community and with society at large, such as, being able to comprehend and write effective reports, make effective Presentations and documentation, and give and receive clear instructions.

PO9-The Pharmacist and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety and legal issues and the consequent responsibilities relevant to the professional pharmacy practice.

PO10-Environment and sustainability: Understand the impact of the professional pharmacy solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO11-Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change. Self-assess and use feedback effectively from others to identify learning needs and to satisfy these needs on an ongoing basis.

I Year (R18 Regulation)		I Semester		
Code	Subject	L	T	C
18BP001 (r18/18BP001.pdf)	Human Anatomy and Physiology I – Theory (r18/18BP001.pdf)	3	1	4
18BP002 (r18/18BP002.pdf)	Pharmaceutical Analysis I – Theory (r18/18BP002.pdf)	3	1	4

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18BP003 (r18/18BP003.pdf)	Pharmaceutics I – Theory (r18/18BP003.pdf)	3	1	4
18BP004 (r18/18BP004.pdf)	Pharmaceutical Inorganic Chemistry – Theory (r18/18BP004.pdf)	3	1	4
18BP005 (r18/18BP005.pdf)	Communication skills – Theory * (r18/18BP005.pdf)	2	-	2
18BP006 (r18/18BP006.pdf)	Remedial Biology – Theory * (r18/18BP006.pdf)	2	-	2
18BP007 (r18/18BP007.pdf)	Remedial Mathematics – Theory * (r18/18BP007.pdf)	2	-	2
18BP008 (r18/18BP008.pdf)	Human Anatomy and Physiology – Practical (r18/18BP008.pdf)	4	-	2
18BP009 (r18/18BP009.pdf)	Pharmaceutical Analysis I – Practical (r18/18BP009.pdf)	4	-	2
18BP010 (r18/18BP010.pdf)	Pharmaceutics I – Practical (r18/18BP010.pdf)	4	-	2
18BP011 (r18/18BP011.pdf)	Pharmaceutical Inorganic Chemistry – Practical (r18/18BP011.pdf)	4	-	2
18BP012 (r18/18BP012.pdf)	Communication skills – Practical * (r18/18BP012.pdf)	2	-	1
18BP013 (r18/18BP013.pdf)	Remedial Biology – Practical * (r18/18BP013.pdf)	2	-	1
Total		32/34^{\$}/36[#]	4	27/29^{\$}/30[#]

I Year (R18 Regulation)		II Semester		
Code	Subject	L	T	C
18BP016 (r18/18BP016.pdf)	Human Anatomy and Physiology II – Theory (r18/18BP016.pdf)	3	1	4
18BP017 (r18/18BP017.pdf)	Pharmaceutical Organic Chemistry I – Theory (r18/18BP017.pdf)	3	1	4

18BP018 (r18/18BP018.pdf)	Biochemistry – Theory (r18/18BP018.pdf)	3	1	4
18BP019 (r18/18BP019.pdf)	Pathophysiology – Theory (r18/18BP019.pdf)	3	1	4
18BP020 (r18/18BP020.pdf)	Computer Applications in Pharmacy – Theory * (r18/18BP020.pdf)	3	-	3
18BP021 (r18/18BP021.pdf)	Environmental sciences – Theory * (r18/18BP021.pdf)	3	-	3
18BP022 (r18/18BP022.pdf)	Human Anatomy and Physiology II –Practical (r18/18BP022.pdf)	4	-	2
18BP023 (r18/18BP023.pdf)	Pharmaceutical Organic Chemistry I– Practical (r18/18BP023.pdf)	4	-	2
18BP024 (r18/18BP024.pdf)	Biochemistry – Practical (r18/18BP024.pdf)	4	-	2
18BP025 (r18/18BP025.pdf)	Computer Applications in Pharmacy – Practical * (r18/18BP025.pdf)	2	-	1
Total		32	4	29

II Year (R18 Regulation)		III Semester		
Code	Subject	L	T	C
18BP031 (r18/18BP031.pdf)	Pharmaceutical Organic Chemistry II – Theory (r18/18BP031.pdf)	3	1	4
18BP032 (r18/18BP032.pdf)	Physical Pharmaceutics I – Theory (r18/18BP032.pdf)	3	1	4
18BP033 (r18/18BP033.pdf)	Pharmaceutical Microbiology – Theory (r18/18BP033.pdf)	3	1	4
18BP034 (r18/18BP034.pdf)	Pharmaceutical Engineering – Theory (r18/18BP034.pdf)	3	1	4
18BP035 (r18/18BP035.pdf)	Pharmaceutical Organic Chemistry II – Practical (r18/18BP035.pdf)	4	-	2

18BP036 (r18/18BP036.pdf)	Physical Pharmaceutics I – Practical (r18/18BP036.pdf)	4	-	2
18BP037 (r18/18BP037.pdf)	Pharmaceutical Microbiology – Practical (r18/18BP037.pdf)	4	-	2
18BP038 (r18/18BP038.pdf)	Pharmaceutical Engineering –Practical (r18/18BP038.pdf)	4	-	2
19CS101 (r19/19CS101.pdf)	Programming for Problem Solving (r19/19CS101.pdf)	4	-	-
Total		32	4	24

II Year (R18 Regulation)		IV Semester		
Code	Subject	L	T	C
18BP041 (r18/18BP041.pdf)	Pharmaceutical Organic Chemistry III- Theory (r18/18BP041.pdf)	3	1	4
18BP042 (r18/18BP042.pdf)	Medicinal Chemistry I – Theory (r18/18BP042.pdf)	3	1	4
18BP043 (r18/18BP043.pdf)	Physical Pharmaceutics II – Theory (r18/18BP043.pdf)	3	1	4
18BP044 (r18/18BP044.pdf)	Pharmacology I – Theory (r18/18BP044.pdf)	3	1	4
18BP045 (r18/18BP045.pdf)	Pharmacognosy and Phytochemistry I- Theory (r18/18BP045.pdf)	3	1	4
18BP046 (r18/18BP046.pdf)	Medicinal Chemistry I – Practical (r18/18BP046.pdf)	4	-	2
18BP047 (r18/18BP047.pdf)	Physical Pharmaceutics II – Practical (r18/18BP047.pdf)	4		2
18BP048 (r18/18BP048.pdf)	Pharmacology I - Practical (r18/18BP048.pdf) (r18/18BP048.pdf)	4	-	2
18BP049 (r18/18BP049.pdf)	Pharmacognosy and Phytochemistry I – Practical (r18/18BP049.pdf)	4	-	2

Total		31	5	28
III Year (R18 Regulation)		V Semester		
Code	Subject	L	T	C
18BP056 (r18/18BP056.pdf)	Medicinal Chemistry II – Theory (r18/18BP056.pdf)	3	1	4
18BP057 (r18/18BP057.pdf)	Industrial PharmacyI– Theory (r18/18BP057.pdf)	3	1	4
18BP058 (r18/18BP058.pdf)	Pharmacology II – Theory (r18/18BP058.pdf)	3	1	4
18BP059 (r18/18BP059.pdf)	Pharmacognosy and Phytochemistry II– Theory (r18/18BP059.pdf)	3	1	4
18BP060 (r18/18BP060.pdf)	Pharmaceutical Jurisprudence – Theory (r18/18BP060.pdf)	3	1	4
18BP061 (r18/18BP061.pdf)	Industrial PharmacyI – Practical (r18/18BP061.pdf)	4	-	2
18BP062 (r18/18BP062.pdf)	Pharmacology II – Practical (r18/18BP062.pdf)	4	-	2
18BP063 (r18/18BP063.pdf)	Pharmacognosy and Phytochemistry II – Practical (r18/18BP063.pdf)	4	-	2
Total		27	5	26
III Year (R18 Regulation)		VI Semester		
Code	Subject	L	T	C
18BP066 (r18/18BP066.pdf)	Medicinal Chemistry III – Theory (r18/18BP066.pdf)	3	1	4
18BP067 (r18/18BP067.pdf)	Pharmacology III – Theory (r18/18BP067.pdf)	3	1	4
18BP068 (r18/18BP068.pdf)	Herbal Drug Technology – Theory (r18/18BP068.pdf)	3	1	4

18BP069 (r18/18BP069.pdf)	Biopharmaceutics and Pharmacokinetics – Theory (r18/18BP069.pdf)	3	1	4
18BP070 (r18/18BP070.pdf)	Pharmaceutical Biotechnology – Theory (r18/18BP070.pdf)	3	1	4
18BP071 (r18/18BP071.pdf)	Quality Assurance –Theory (r18/18BP071.pdf)	3	1	4
18BP072 (r18/18BP072.pdf)	Medicinal chemistry III – Practical (r18/18BP072.pdf)	4	-	2
18BP073 (r18/18BP073.pdf)	Pharmacology III – Practical (r18/18BP073.pdf)	4	-	2
18BP074 (r18/18BP074.pdf)	Herbal Drug Technology – Practical (r18/18BP074.pdf)	4	-	2
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IV Year (R18 Regulation)		VII Semester		
Code	Subject	L	T	C
18BP076 (r18/18BP076.pdf)	Instrumental Methods of Analysis – Theory (r18/18BP076.pdf)	3	1	4
18BP077 (r18/18BP077.pdf) (r18/18BP077.pdf)	Industrial Pharmacy II - Theory (r18/18BP077.pdf) (r18/18BP077.pdf)	3	1	4
18BP078 (r18/18BP078.pdf)	Pharmacy Practice – Theory (r18/18BP078.pdf)	3	1	4
18BP079 (r18/18BP079.pdf)	Novel Drug Delivery System – Theory (r18/18BP079.pdf)	3	1	4
18BP080 (r18/18BP080.pdf)	Instrumental Methods of Analysis –Practical (r18/18BP080.pdf)	4	-	2
18BP081	Practice School *	12	-	6
Total		28	5	24

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IV Year (R18 Regulation)		VIII Semester		
Code	Subject	L	T	C
18BP086 (r18/18BP086.pdf)	Biostatistics and Research Methodology (r18/18BP086.pdf)	3	1	4
18BP087 (r18/18BP087.pdf)	Social and Preventive Pharmacy (r18/18BP087.pdf)	3	1	4
18BP088 (r18/18BP088.pdf)	Pharma Marketing Management (r18/18BP088.pdf)	3 + 3 = 6	1 + 1 = 2	4 + 4 = 8
18BP089 (r18/18BP089.pdf)	Pharmaceutical Regulatory Science (r18/18BP089.pdf)			
18BP090 (r18/18BP090.pdf)	Pharmacovigilance (r18/18BP090.pdf) (https://www.facebook.com/Vignan-University-351520444892263/?fref=ts)			
18BP091 (r18/18BP091.pdf)	Quality Control and Standardization of Herbals (https://twitter.com/VFSTRUniversity) (https://www.linkedin.com/company/vignan-s-foundation-for-science-technology-research/)			
18BP092 (r18/18BP092.pdf)	Computer Aided Drug Design (r18/18BP092.pdf) (https://www.youtube.com/channel/UCzDKwPH7h79xDSOUgGSwjPQ)			
18BP093 (r18/18BP093.pdf)	Cell and Molecular Biology (r18/18BP093.pdf)			
18BP094 (r18/18BP094.pdf)	Cosmetic Science (r18/18BP094.pdf)			
18BP095 (r18/18BP095.pdf)	Experimental Pharmacology (r18/18BP095.pdf)			
18BP096 (r18/18BP096.pdf)	Advanced Instrumentation Techniques (r18/18BP096.pdf)			
18BP097 (r18/18BP097.pdf)	Dietary Supplements and Nutraceuticals (r18/18BP097.pdf)			
18BP098 (r18/18BP098.pdf)	Project Work (r18/18BP098.pdf)	12	-	6
Total		24	4	22
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Electives				

S. No	Course Code	Elective
1	16BI250 (r18/bpharmel/16BI250.pdf)	Biopharmaceutical technology (r18/bpharmel/16BI250.pdf)
2	16BI350 (r18/bpharmel/16BI350.pdf)	Molecular modeling (r18/bpharmel/16BI350.pdf)
3	19BT332 (r18/bpharmel/19BT332.pdf)	Handling of animals for experiments (r18/bpharmel/19BT332.pdf)
4	19BT433 (r18/bpharmel/19BT433.pdf)	Medicinal plants and ethnobotany (r18/bpharmel/19BT433.pdf)
5	17BT010 (r18/bpharmel/17BT010.pdf)  (https://www.facebook.com/Vignan-University-351520444892263/?fref=ts)	Immunotechnology (r18/bpharmel/17BT010.pdf)
6	19BI331 (https://twitter.com/VFSTRUniversity) (r18/bpharmel/19BI331.pdf)  (https://www.linkedin.com/company/vignan-s-foundation-for-science-technology-research/)	Molecular interaction (r18/bpharmel/19BI331.pdf)
7	19BT334 (https://www.youtube.com/channel/UCzDKwPH7h79xDSOUgGSwiPQ) (r18/bpharmel/19BT334.pdf)	Plant tissue culture (r18/bpharmel/19BT334.pdf)
8	16BT251 (r18/bpharmel/16BT251.pdf)	Physiology and histology (r18/bpharmel/16BT251.pdf)
9	16BT451 (r18/bpharmel/16BT451.pdf)	Drug toxicity evaluation (r18/bpharmel/16BT451.pdf)
10	19BI335 (r18/bpharmel/19BI335.pdf)	Metabolic pathway (r18/bpharmel/19BI335.pdf)
11	19BM314 (r18/bpharmel/19BM314.pdf)	Python programming for medical applications (r18/bpharmel/19BM314.pdf)
12	16EL103 (r18/bpharmel/16EL103.pdf)	Professional communication laboratory (r18/bpharmel/16EL103.pdf)
13	19BM213 (r18/bpharmel/19BM213.pdf)	Biomedical equipment (r18/bpharmel/19BM213.pdf)
14	16BM308 (r18/bpharmel/16BM308.pdf)	Medical imaging technique (r18/bpharmel/16BM308.pdf)

15	19CS101 (r18/bpharmel/19CS101.pdf)	Programming for problem solving (r18/bpharmel/19CS101.pdf)
16	18BP101 (r18/bpharmel/18BP101.pdf)	GXP (r18/bpharmel/18BP101.pdf)
17	18BP102 (r18/bpharmel/18BP102.pdf)	Supply chain management (r18/bpharmel/18BP102.pdf)
18	18BP103 (r18/bpharmel/18BP103.pdf)	Scale up and tech transfer (r18/bpharmel/18BP103.pdf)
19	18BP104 (r18/bpharmel/18BP104.pdf)	Method transfer, quality control and assurance (r18/bpharmel/18BP104.pdf)
20	18BP105 (r18/bpharmel/18BP105.pdf)	Clinical data management (r18/bpharmel/18BP105.pdf)
21	18BP106 (r18/bpharmel/18BP106.pdf)	Health care management (r18/bpharmel/18BP106.pdf)



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L=Lecture; **T**=Tutorial; **C**=Credits;

- Applicable ONLY for the students who have studied Mathematics / Physics / Chemistry at HSC and appearing for Remedial Biology (RB)course.

\$ - Applicable ONLY for the students who have studied Physics / Chemistry / Botany / Zoology at HSC and appearing for Remedial Mathematics (RM)course.

***** - Non University Examination (NUE)

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Level	Under Graduation
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Admission Enrollment and General Enquiries	0863-2344777, 1800-425-2529
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Holistic Training (<https://vignan.ac.in/holistic.php>)

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Vignan Online Education (<https://vignanonline.com/>)

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International brochure 2023

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Feedback / Survey

(<https://vignan.ac.in/feedbackfacility.php>)

Student Portal (<http://14.139.85.171/student/>)

Tuition Fee Payment (<https://vignan.ac.in/tuitionfee.php>)

VFSTR Mail (<https://outlook.com/vignanuniersity.org/>)

MHRD-NMEICT Initiative (<https://vignan.ac.in/pdf/NME-ICT-MHRD.pdf>)

VU Today (<https://vignan.ac.in/VUtodaypdf/21-6-2023.pdf>)

e-Bulletin of APSCHE

(https://vignan.ac.in/pdf/apsche_bulliten.pdf)

Feedback on Website (<https://vignan.ac.in/survey/>)

AICTE Internship Portal (<https://internship.aicte-india.org/>)

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