



JSPM UNIVERSITY PUNE

Recognized by UGC u/s 2 (f) of UGC Act 1956 and enacted by the
State Government of Maharashtra - JSPM University Act, 2022 (Mah.IV of 2023)

JSPM University Pune
Faculty of Health Sciences
School of Pharmaceutical Sciences



NEP aligned Curriculum Structure

for

PhD (Pharmaceutical Sciences)
(Effective from AY: 2023-24)



JSPM University Pune

FACULTY OF HEALTH SCIENCES

SCHOOL OF PHARMACEUTICAL SCIENCES

COURSE STRUCTURE (NEP 2020 Aligned)

W. E. F

2023-2024

RELEASE DATE

01/07/2023

COURSE WORK - DOCTOR OF PHILOSOPHY (PHARMACEUTICAL SCIENCES)

REVISION NO.

0.0 (NEP)

SEMESTER I (LEVEL 8)

| COURSE | | | TEACHING SCHEME | | | | EXAMINATION SCHEME AND MARKS | | | | | | | | TOTAL | CREDITS |
|--------|-----------|---------------------------------|-----------------|---|---|----|---|------------------|---------------------------|--|--|---|--|--|-------|---------|
| TYPE | CODE | COURSE NAME | Hours / Week | | | | THEORY (Equal Weightage for CIE and ESE) | | | PRACTICAL (Equal Weightage for CIE and ESE) | | ORAL (Equal Weightage for CIE and ESE) | | | | |
| | | | L | T | P | EL | CONTINUOUS INSEMESTER EVALUATION (100 Marks) | | | END SEMESTER EXAMINATION (100 / 50 Marks) | CONTINUOUS INSEMESTER EVALUATION (50 Marks) | END SEMESTER EXAMINATION (50 Marks) | CONTINUOUS INSEMESTER EVALUATION (50 Marks) | END SEMESTER EXAMINATION (50 Marks) | | |
| | | | | | | | T1 (30 Marks) | T2 (30 Marks) | Assignments (40 Marks) | | | | | | | |
| PCC | -- | Domain Specific Course 1 / MOOC | 3 | - | - | - | 30 | 30 | 40 | 100 | - | - | - | - | 100 | 3 |
| PCC | -- | Domain Specific Course 2 / MOOC | 3 | - | - | - | 30 | 30 | 40 | 100 | - | - | - | - | 100 | 3 |
| PSBC | -- | Program Specific Bridge Course | 3 | - | - | - | 30 | 30 | 40 | 100 | - | - | - | - | 100 | 3 |
| RMC | 230IRMD01 | Research and Publication Ethics | 2 | - | - | - | 30 | 30 | 40 | 100 | - | - | - | - | 100 | 2 |
| RMC | 230IRMD02 | Research Proposal Writing | 1 | - | - | - | - | - | - | - | - | - | 50 | 50 | 50 | 1 |
| RMC | 230IRMD03 | Writing Literature Review | 2 | - | - | - | - | - | - | - | - | - | 100 | 100 | 100 | 2 |
| SLC | 230ISR01 | Seminar | - | - | - | 8 | - | - | - | - | - | - | 50 | 50 | 50 | 2 |
| TOTAL | | | 14 | | | 8 | | | | | | | | | 600 | 16 |



L-Lecture
Format No.: JSPMUni/ACAD/001

T-Tutorial
Rev. No.:0.0

P-Practical Session (Laboratory)
Rev. Date:01/07/2023

EL-Experiential Learning
Page 1 of 2


| | | DOMAIN SPECIFIC COURSE (DSC) | | | | MASSIVE OPEN ONLINE COURSES (MOOC) | | |
|-----------------|-------------|---|-----------------------------------|----------------------------------|--------------------------------|---|--------------------------------|--------------------------------------|
| PCC (DSC- 1) | Course Code | 230IPSD01 | 230IPSD03 | 230IPSD05 | 230IPSD07 | 230IPSD16 | 230IPSD10 | 2310PSD15 |
| | Course Name | Regulatory Profile for Product Development I | Advanced Pharmaceutical Chemistry | Advanced Pharmacology | Herbal Drug Technology | Drug delivery, Principles and Engineering | Genome Editing and Engineering | Plant Biochemistry and Biotechnology |
| PCC (DSC- 2) | Course Code | 230IPSD02 | 230IPSD04 | 230IPSD06 | 230IPSD08 | 230IPSD11 | - | - |
| | Course Name | Regulatory Profile for Product Development II | Computer Aided Drug Design | Advanced Pharmacology Techniques | Pharmacognosy & Phytochemistry | Organic Chemistry in Biology and Drug Development | - | - |

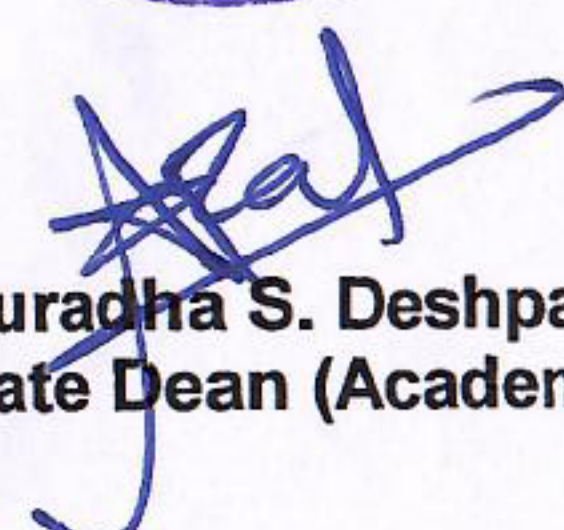
| | | | |
|--------------------------------|-------------|---------------|------------------------|
| Program Specific Bridge Course | Course Code | 230IPSD09 | 230GMAD11 |
| | Course Name | Biostatistics | Statistical Techniques |

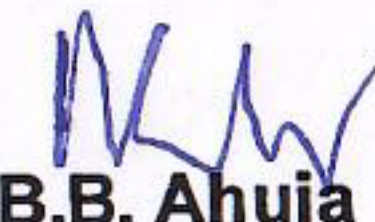

Dr. A. B. Deshmukh
PhD Coordinator (SPS)




Dr. S. B. Wankhede
Dean, Faculty of Pharmaceutical Sciences


Dr. K. J. Uke
Director (RIIL)


Dr. Anuradha S. Deshpande
Associate Dean (Academics)


Prof. B.B. Ahuja
Vice Chancellor, JSPM University Pune

L-Lecture
Format No.: JSPMUni/ACAD/001

T-Tutorial
Rev. No.:0.0

P-Practical Session (Laboratory)
Rev. Date:01/07/2023

EL-Experiential Learning
Page 2 of 2



JSPM University Pune

FACULTY OF HEALTH SCIENCES

SCHOOL OF PHARMACEUTICAL SCIENCES

COURSE STRUCTURE (NEP 2020 Aligned)

W. E. F

2024-2025

RELEASE DATE

01/07/2024

COURSE WORK - DOCTOR OF PHILOSOPHY (PHARMACEUTICAL SCIENCES)

REVISION NO.


1.0 (NEP)

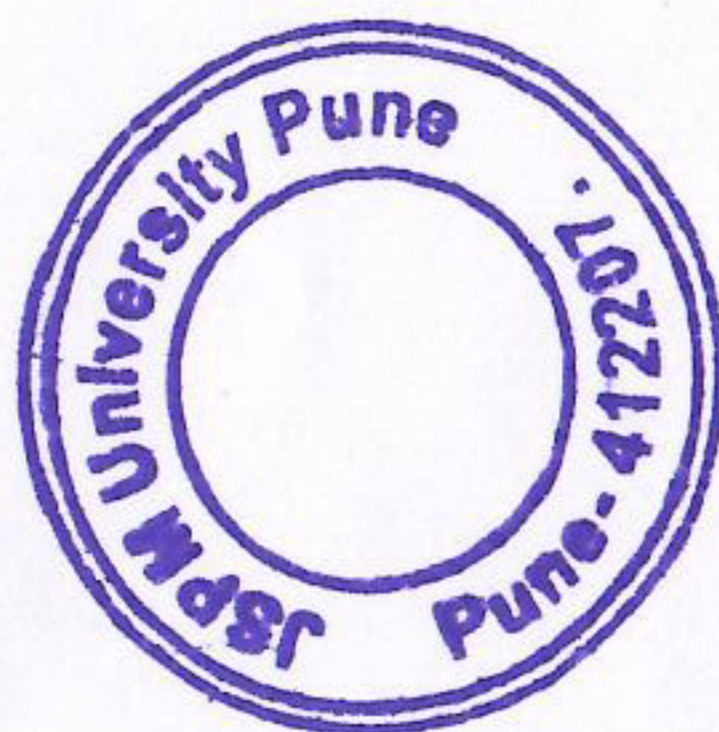
SEMESTER I (LEVEL 8)

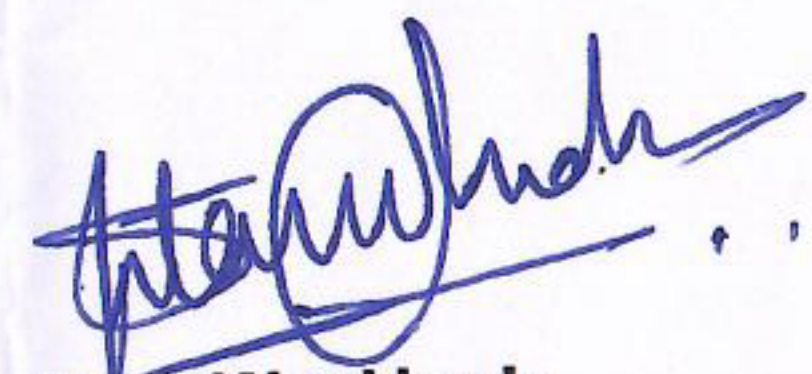
| COURSE | | | TEACHING SCHEME | | | | EXAMINATION SCHEME AND MARKS | | | | | | | | TOTAL | CREDITS |
|--------------|-----------|---------------------------------|-----------------|----------|---|----------|---|------------------|---------------------------|--|--|--|--|--|------------|-----------|
| TYPE | CODE | COURSE NAME | Hours / Week | | | | THEORY (Equal Weightage for CIE and ESE) | | | | PRACTICAL (Equal Weightage for CIE and ESE) | | ORAL (Equal Weightage for CIE and ESE) | | | |
| | | | L | T | P | EL | CONTINUOUS INSEMESTER EVALUATION (100 Marks) | | | END SEMESTER EXAMINATION (100 / 50 Marks) | CONTINUOUS INSEMESTER EVALUATION (50 Marks) | END SEMESTER EXAMINATION (50 Marks) | CONTINUOUS INSEMESTER EVALUATION (50 Marks) | END SEMESTER EXAMINATION (50 Marks) | | |
| | | | | | | | T1 (30 Marks) | T2 (30 Marks) | Assignments (40 Marks) | | | | | | | |
| PCC | -- | Domain Specific Course 1 / MOOC | 3 | - | - | - | 30 | 30 | 40 | 100 | - | - | - | - | 100 | 3 |
| PCC | -- | Domain Specific Course 2 / MOOC | 3 | - | - | - | 30 | 30 | 40 | 100 | - | - | - | - | 100 | 3 |
| PSBC | 230GMAD11 | Statistical Techniques | 3 | - | - | - | 30 | 30 | 40 | 100 | - | - | - | - | 100 | 3 |
| RMC | 231IRMD01 | Research and Publication Ethics | 2 | - | - | - | 30 | 30 | 40 | 50 | - | - | - | - | 50 | 2 |
| RMC | 231IRMD02 | Research Proposal Writing | 1 | 1 | - | - | - | - | - | - | - | - | 50 | 50 | 50 | 2 |
| RMC | 231IRMD03 | Writing Literature Review | 2 | - | - | - | - | - | - | - | - | - | 50 | 50 | 50 | 2 |
| SLC | 231ISR01 | Seminar | - | - | - | 4 | - | - | - | - | - | - | 50 | 50 | 50 | 1 |
| TOTAL | | | 14 | 1 | | 4 | | | | | | | | | 500 | 16 |




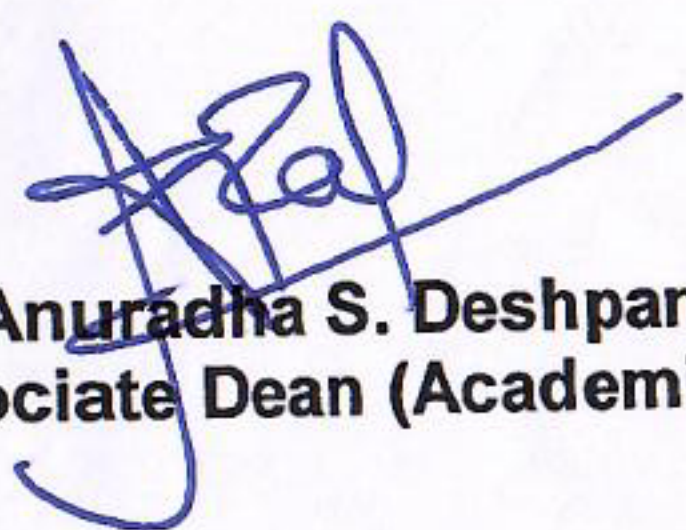
| DOMAIN SPECIFIC COURSE (DSC) | | | | | | MASSIVE OPEN ONLINE COURSES (MOOC) | | | | |
|------------------------------|-------------|---|-----------------------------------|----------------------------------|--------------------------------|---|---|--|--------------------------------------|--------------------|
| PCC (DSC- 1) | Course Code | 230IPSD01 | 230IPSD03 | 230IPSD05 | 230IPSD07 | 230IPSD16 | 230IPSD10 | 240IPSD12 | 230IPSD15 | 240IPSD17 |
| | Course Name | Regulatory Profile for Product Development I | Advanced Pharmaceutical Chemistry | Advanced Pharmacology | Herbal Drug Technology | Drug delivery, Principles and Engineering | Genome Editing and Engineering | Spectroscopic Techniques for Pharmaceutical and Biopharmaceutical Industries | Plant Biochemistry and Biotechnology | Structural Biology |
| PCC (DSC- 2) | Course Code | 230IPSD02 | 230IPSD04 | 230IPSD06 | 230IPSD08 | 230IPSD11 | 240IPSD13 | 240IPSD14 | - | - |
| | Course Name | Regulatory Profile for Product Development II | Computer Aided Drug Design | Advanced Pharmacology Techniques | Pharmacognosy & Phytochemistry | Organic Chemistry in Biology and Drug Development | Polymers: Concepts, Properties, Uses and Sustainability | NMR spectroscopy for Structural Biology | - | - |

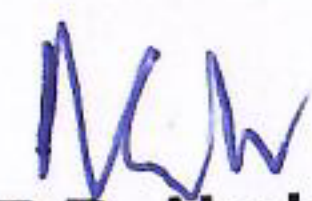

Dr. A. B. Deshmukh
PhD Coordinator (SPS)




Dr. S. B. Wankhede
Dean, Faculty of Pharmaceutical Sciences


Dr. K. J. Uke
Director (RIIL)


Dr. Anuradha S. Deshpande
Associate Dean (Academics)


Prof. B.B. Ahuja
Vice Chancellor, JSPM University Pune

L-Lecture
Format No.: JSPMUni/ACAD/001

T-Tutorial
Rev. No.:1.0

P-Practical Session (Laboratory)
Rev. Date:01/07/2024

EL-Experiential Learning
Page 2 of 2