

NU/AC/4 (B) (b)/18- 70 Date: 05.05.2018

NOTIFICATION

- Read: 1. Regulation No. 44 of Academic Regulations for Admission to University, etc. published vide notification No. NU-442 dated 27.1.2004

 Empowering Academic Council to approve teaching & examination scheme, syllabus, etc.
 - 2. Notifications mentioned in Handbook-IV, updated up to April, 2015
 - 3. Noti. No. 14-154, Dt. 10.12.2014- Bachelor of Pharmacy (B.Pharm.) course regulations, 2014 published by PCI
 - 4. Resolution No. 3(B)- Faculty of Pharmacy meeting- 28.02.2018
 - 5. Resolution No. 4(B)(b) Academic Council meeting 20.04.2018

Sub: <u>Introduction of Programme /Course Structure of B. Pharm. programme in pursuance to the Bachelor of Pharmacy (B.Pharm.) Course Regulations, 2014 as prescribed by the PCI</u>

It is, hereby, notified for information of all concerned that, the Academic Council in its meeting held on 20.04.2018 under resolution No. 4(B)(b), in exercise of powers conferred upon it by the Board of Governors under regulation mentioned at serial 1 above, taking into consideration the recommendation of the Faculty of Pharmacy, has resolved to approve the *introduction* of Programme /Course Structure of B. Pharm. programme in pursuance to the Bachelor of Pharmacy (B.Pharm.) Course Regulations, 2014 mentioned at serial 3 above, to be made effective for the students to be admitted in **B. Pharm. programme** from academic year 2018-19 onwards, as *Appendix-A* attached herewith.

X

Encl: Appendix-A [Pages 1 to 19]

To.

1. Dean, Faculty of Pharmacy

2. Coordinator of Exam, IP

3. Dy. Registrar: Examination

Copy to: OS-IP; Librarian-IP; P.A. to ER

c.f.w.cs. for information to: 1. Vice President

2. Director General

Rules for Programme/ Course Structure of B.Pharm. Programme

R.1 Course of Study:

The course of study for B. Pharm shall include Semester Wise Theory & Practical as given in Table - I to VIII. The number of hours to be devoted to each theory, tutorial and practical course in any semester shall not be less than that shown in Table - I to VIII.

Table-I: Course of study for semester I

| Course | Name of the Course | No. of | Tutorial | Credit |
|-----------------------|--|-------------|-----------------------------|-------------|
| Code | | Hours | | Points |
| BP101T | Human Anatomy and Physiology I-Theory | 3 | 1 | 4 |
| BP102T | Pharmaceutical Analysis I – Theory | 3 | 1 | 4 |
| BP103T | Pharmaceutics I – Theory | 3 | 1 | 4 |
| BP104T | Pharmaceutical Inorganic Chemistry – Theory | 3 . | 1 | 4 · |
| BP105T | Communication skills- Theory * | 2 | - | 2 |
| BP106RBT/ BP106RMT | Remedial Biology/ Remedial Mathematics – Theory* | 2 | - 100 - 100 C | 2 |
| BP107P | Human Anatomy and Physiology – Practical | 4 | <u>-</u> | 2 |
| BP108P | Pharmaceutical Analysis I – Practical | . 4 | Siesei s aesei i | . 2 |
| BP109P. | Pharmaceutics I – Practical | . 4 | - | 2 |
| BP110P | Pharmaceutical Inorganic Chemistry – Practical | 4 | | 2 |
| BP111P - | Communication skills – Practical* | 2 | - | 1 |
| BP112RBP | Remedial Biology – Practical* | 2 | - | 1 |
| | Total | 32/34\$/36# | 4 | 27/29\$/30# |

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

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

^{*} Non University Examination (NUE)

Table-II: Course of study for semester II

| Code | Name of the Course | No. of Hours | Tutorial | Credit Points |
|--------|--|-----------------|----------|------------------|
| BP201T | Human Anatomy and Physiology II – Theory | 3 | 1 | 4 |
| BP202T | Pharmaceutical Organic Chemistry I – Theory | 3 | 1 | . 4 |
| BP203T | Biochemistry – Theory | 3 | 1 | 4 |
| BP204T | Pathophysiology - Theory | 3 | 1 | 4 |
| BP205T | Computer Applications in Pharmacy – Theory * | 3 | | 3 |
| BP206T | Environmental sciences – Theory * | 3 | 7 72 | 3 |
| BP207P | Human Anatomy and Physiology II – Practical | 4 | | 2 |
| BP208P | Pharmaceutical Organic Chemistry I— Practical | 4 | | 2 |
| BP209P | Biochemistry – Practical | 4 | - | 2 |
| BP210P | Computer Applications in Pharmacy – Practical* | 2 | | . 1 |
| | Total | 32 | 4 | 29 |

^{*}Non University Examination (NUE)

Table-III: Course of study for semester III

| Course Code | Name of the Course | No. of Hours | Tutorial | Credit Points |
|----------------|---|-----------------|----------|------------------|
| BP301T | Pharmaceutical Organic Chemistry II – Theory | 3 | 1 | 4 |
| BP302T | Physical Pharmaceutics I – Theory | 3 | 1 | 4: |
| BP303T | Pharmaceutical Microbiology – Theory | 3 | 1 | 4 |
| BP304T | Pharmaceutical Engineering – Theory | 3 | 1 | 4 |
| BP305P | Pharmaceutical Organic Chemistry II – Practical | 4 | - | 2 |
| BP306P | Physical Pharmaceutics I – Practical | . 4 | | 2 |
| BP307P | Pharmaceutical Microbiology – Practical | 4 | - | 2 |
| BP 308P | Pharmaceutical Engineering –Practical | 4 | - | 2 |
| | Total | 28 | 4 | 24 |



Table-IV: Course of study for semester IV

| Course Code | Name of the Course | No. of Hours | Tutorial | Credit Points |
|----------------|--|-----------------|----------|------------------|
| BP401T | Pharmaceutical Organic Chemistry III- | 3 | 1 | 4 |
| DD400 | Theory | | | |
| BP402T | Medicinal Chemistry I – Theory | 3 | 1 | 4 |
| BP403T | Physical Pharmaceutics II – Theory | . 3 | 1 | 4 |
| BP404T | Pharmacology I – Theory | 3 | 1 | 4 |
| BP405T | Pharmacognosy and Phytochemistry I- | 3 | 1 | 4 |
| | Theory | | | |
| BP406P | Medicinal Chemistry I – Practical | 4 | - | 2 |
| BP407P | Physical Pharmaceutics II – Practical | 4 | - | 2 |
| * | The state of the s | | | - |
| BP408P | Pharmacology I – Practical | 4 | - | 2 |
| BP409P | Pharmacognosy and Phytochemistry I – | 4 | - | 2 |
| | Practical | | | |
| | Total | 31 | 5 | 28 |

Table-V: Course of study for semester V

| Code | Name of the Course | No. of Hours | Tutorial | Credit Points |
|--------|---|-----------------|----------|------------------|
| BP501T | Medicinal Chemistry II – Theory | 3 | 1 | 4 |
| BP502T | Industrial Pharmacy I— Theory | 3 | 1 | 4 |
| BP503T | Pharmacology II – Theory | 3 | 1 | 4 |
| BP504T | Pharmacognosy and Phytochemistry II— Theory | 3 | 1 . | 4 . |
| BP505T | Pharmaceutical Jurisprudence - Theory | 3 | 1 | 4 |
| BP506P | Industrial Pharmacy I – Practical | 4 | - | 2 |
| BP507P | Pharmacology II – Practical | 4 | - | 2 |
| BP508P | Pharmacognosy and Phytochemistry II – Practical | 4 | - | 2 |
| | Total | 27 | 5 | 26 |

Table-VI: Course of study for semester VI

| Course | Name of the Course | No. of Hours | Tutorial | Credit Points |
|--------|--|-----------------|----------|------------------|
| BP601T | Medicinal Chemistry III – Theory | 3 | 1 | 4 |
| BP602T | Pharmacology III – Theory | 3 | 1 | . 4 |
| BP603T | Herbal Drug Technology – Theory | 3 | 1 | 4 |
| BP604T | Biopharmaceutics and Pharmacokinetics – Theory | 3 | 1 | 4 |
| BP605T | Pharmaceutical Biotechnology - Theory | 3 | 1 | • 4 |
| BP606T | Quality Assurance – Theory | 3 | 1 | 4 |
| BP607P | Medicinal chemistry III – Practical | 4 | | 2 |
| BP608P | Pharmacology III – Practical | 4 | - | 2 |
| BP609P | Herbal Drug Technology – Practical | 4 | - | . 2 |
| | Total | 30 | 6 | 30 |

Table-VII: Course of study for semester VII

| Course Code | Name of the Course | No. of Hours | Tutorial | Credit Points |
|----------------|--|-----------------|----------|------------------|
| BP701T | Instrumental Methods of Analysis – Theory | . 3 | 1, | 4 |
| BP702T | Industrial Pharmacy II – Theory | 3 | .1 | . 4 |
| BP703T | Pharmacy Practice – Theory | 3 | 1 | . 4 |
| BP704T | Novel Drug Delivery System – Theory | 3 . | 1.1 | . 4 |
| BP705P | Instrumental Methods of Analysis – Practical | 4 . | | 2 |
| BP706PS | Practice School* | 12 | | 6 |
| 20 | Total | 28 | 5 | 24 |

^{*} Non University Examination (NUE)

Table-VIII: Course of study for semester VIII

| Code | Name of the Course | No. of Hours | Tutorial | Credit Points |
|---------|--|-----------------|----------|------------------|
| BP801T | Biostatistics and Research Methodology | 3 | 1 | 4 |
| BP802T | Social and Preventive Pharmacy | 3 | 1 | 4 |
| BP803ET | Pharma Marketing Management | | | |
| BP804ET | Pharmaceutical Regulatory Science | | | |
| BP805ET | Pharmacovigilance | | | |
| BP806ET | Quality Control and Standardization of | | | |
| | Herbals | | | |
| BP807ET | Computer Aided Drug Design | 3 + 3 = | 1+1= | 4+4= |
| BP808ET | Cell and Molecular Biology | 6 | 2 | 8 |
| BP809ET | Cosmetic Science | | | |
| BP810ET | Experimental Pharmacology | | | |
| BP811ET | Advanced Instrumentation Techniques | | | |
| BP812ET | Dietary Supplements and Nutraceuticals | * | | |
| BP813PW | Project Work | 12 | | 6 |
| • | Total | 24 | 4 | 22 |

Table-IX: Semester wise credits distribution

| Semester | Credit Points | |
|---|-------------------|--|
| I | 27/29\$/30# | |
| II | 29 | |
| III | 26 | |
| IV | 28 | |
| V | 26 | |
| . VI : | 26 | |
| VII | 24 | |
| VIII | 22 | |
| Extracurricular/ Co-curricular activities | 01* | |
| Total credit points for the program | 209 / 211s / 212# | |

^{*} The credit points assigned for extracurricular and or co-curricular activities shall be given by the Director/HOI of the colleges on the recommendation of the committee constituted by Director/HOI from time to time and the same shall be submitted to the University.

s Applicable ONLY for the students studied Physics / Chemistry / Botany / Zoology at HSC and appearing for Remedial Mathematics course.

[#] Applicable ONLY for the students studied Mathematics / Physics / Chemistry at HSC and appearing for Remedial Biology course.

R.2 Examinations/Assessments

The scheme for internal assessment and Semester End Examinations is given in Table-X.

R.2.1 Semester End Examinations

The Semester End Examinations for each theory and practical course through semesters I to VIII shall be conducted by the university except for the subjects with asterix symbol (*) in table I, II and VII for which examinations shall be conducted by the subject experts at college level and the marks/grades shall be submitted to the university.

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Tables-X: Schemes for internal assessments and semester end examinations semester wise

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|-----------------------------|-----------------|----------|-------------------|--|-----------------------------|--------------------------|--------------------------|--------------------|------------------------|----------|-------------------|-----------------------|-------------------|------------------------|-----------------------------|-----------|-----------------------------|--------------------------|-----------------------|------------------------|------------|-------------------------------|---------------|-----------------------|
| Total | | | 100 | 100 | 100 | | 100 | 100 | | 20 | 05 | 3 | 20 | 3 | 0.5 | 20 | | 20 | 3 | 20 | 3 | 30 | C7 | 675/725\$/ |
| Semester End Examination | Duration | | 2 H-c | SILIS | 3 Hrs | | 3 Hrs | 3 Hrs | | 1.5 Hrs | 1.5 Hrs | | 4 Hrs | | 4.11- | 4 mis | A III | 4 Hrs | | 71.0 | Z HIS |) Um | ZIII Z | 31.5/33\$/ 35# Hrs |
| Semes | Marks | | 75 | ? | 75 | ı | () | 75 | 20 | 33 | 35 | | 35 | | 35 | 3 | 35 | 35 | } | 15 | CT | | CI | 490/525\$/ |
| | Total | | 25 | 3 | 25 | 30 | 67 | 25 | 1.6 | 2 | 115 | | 15 | | 15 | 3 | 15 | . 15 | | 10 | 24 | 10 | | 185/200\$/210# |
| Internal Assessment | Exams | Duration | 1 Hr | | 1 Hr | 10. | 1 1 1 1 | H | 114 | ш | 11. | | 4 Hrs | | 4 Hrs |) | 4 Hrs | 4 Hrs | | 2 Hrs | | 2 Hrs | II POINT WILL | 23/243/20# Hrs |
| Internal A | Sessional Exams | Marks | 15 | | 15 | 15 | | CI | 10 | 2 | 10 | | 10 | • | 10 | | 10 | .10 | | . 5 | | 5 | 115/1356/130# | #061/6671/611 |
| | Continuous | mode | 10 | | 10 | 10 | 0.1 | 2 | 5 |) | S | | 5 | | 5 | | . 5 | 5 | | . 5 | , | 5 | #08/354/04 | 1001001101 |
| Name of Course | | | Human Anatomy and | Physiology I – Theory | Pharmaceutical Analysis I – | Pharmaceutics I – Theory | Pharmaceutical Increasio | Chemistry – Theory | Communication skills - | Theory * | Remedial Biology/ | Mathematics - Theory* | Human Anatomy and | Physiology - Practical | Pharmaceutical Analysis I – | Practical | Pharmaceutics I – Practical | Pharmaceutical Inorganic | Chemistry – Practical | Communication skills - | Practical* | Remedial Biology - Practical* | Total | |
| Code | | | BP101T | The second of th | BP102T | BP103T | RP104T | | BP105T | | BP106RBT/ | BFIUDKMI | BP107P | | BP108P | | BP109P | BP110P | | BP111P | | BP112RBP | | |

#Applicable ONLY for the students studied Mathematics / Physics / Chemistry at HSC and appearing for Remedial Biology (RB) course. \$Applicable ONLY for the students studied Physics / Chemistry / Botany / Zoology at HSC and appearing for Remedial Mathematics (RM) course. * Non University Examination (NUE) - The subject experts at college level shall conduct examinations

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Semester-II

| Code | Name of Course | , | Internal Assessment | sessment | | Semest | Semester End Examination | Total Marks |
|--------|--------------------------|------------|---------------------|-----------------|-------|--------|-----------------------------|-------------|
| | | Continuous | Session | Sessional Exams | Total | Marks | Duration | |
| | | mode | Marks | Duration | | | | 848 |
| BP201T | Human Anatomy and | 10 | 15 | 1 Hr | 25 | . 75 | 3 Hrs | 100 |
| | Physiology II – Theory | | | | | | | |
| BP202T | Pharmaceutical Organic | 10 | 15 | .1 Hr. | . 25 | . 75 . | 3 Hre | 100 |
| | Chemistry I – Theory | | | • | | | | |
| BP203T | Biochemistry - Theory | 10 | 15 | 1 Hr | 25. | 75 | 3 Hre | 100 |
| BP204T | Pathophysiology - Theory | 10 | 15 | 1 Hr | 25 | 75 | 3 Hre | 100 |
| BP205T | Computer Applications in | 10 | 15 | 1 Hr | 25 | 50 | 2 Hre | 75 |
| | Pharmacy - Theory* | | | ! | } | 2 | 2 | 2 |
| BP206T | Environmental Sciences - | . 10 | 15 | 1 Hr | 25 | 50 | 2 Hre | 75 |
| | Theory* | | | ! | 3 | 2 | 7 | ? |
| BP207P | Human Anatomy and | \$ | 10 | 4 Hrs | 15 | 35 | 4 Hre | 05 |
| | Physiology II -Practical | | | | } | - | | } |
| BP208P | Pharmaceutical Organic | 5 | 10 | 4 Hrs | 15 | 35 | 4 Hrs | 05 |
| | Chemistry I- Practical | | | | } | 3 | | 3 |
| BP209P | Biochemistry - Practical | 5 | .10 | 4 Hrs | . 15 | 35 | 4 Hrs | 05 |
| BP210P | Computer Applications in | 5 | 5 | 2 Hrs | 10 | 15 | 2 Hrs | 25 |
| | Pharmacy - Practical* | | | | | | | |
| | Total | 80 | 125 | 20 Hrs | 205 | 520 | 30 Hre | 775 |

* Non University Examination (NUE) - The subject experts at college level shall conduct examinations

Semester-III

| | Name of Course | | Interna | Internal Assessment | | Comos | ton Day | |
|--------------------|--|------------|-------------------|---------------------|-------|-------|-------------|-------|
| | | | | | • | Exam | Examination | Iotal |
| | | Continuous | Session | Sessional Exams | Total | Marks | Duration | |
| | | mode | Marks | Duration | | | | |
| Phar Che | Pharmaceutical Organic Chemistry II – Theory | 10 | 15 | 1 Hr | 25 | 75 | 3 Hrs | 100 |
| Physical Theory | Physical Pharmaceutics I – Theory | 10 | 15 | 1 Hr | 25 | 75 . | 3 Hrs | 100 |
| Pha The | Pharmaceutical Microbiology – Theory | 10 | 15 | 1 Hr | 25 | 75 | 3 Hrs | . 100 |
| Pharmac Theory | Pharmaceutical Engineering – Theory | 10 | .15 | 1 Hr | 25 | 75 | 3 Hrs | 100 |
| Pha Che | Pharmaceutical Organic Chemistry II – Practical | S | 10 | 4 Hr | 15 | 35 | 4 Hrs | 50 |
| Phy Prac | Physical Pharmaceutics I – Practical | S | 10 | 4 Hr | 15 | 35 | 4 Hrs | 50 |
| Pha Prac | Pharmaceutical Microbiology— Practical | ν. | 10 | 4 Hr | 15 | 35 | 4 Hrs | 50 |
| Pha Pra | Pharmaceutical Engineering – Practical | . S. | 10 | 4 Hr | 15 | 35 | 4 Hrs | 50 |
| | Total: | 09 | 100 | 20 | 160 | 440 | 28 Hrs | 009 |
| | | | The second second | | | | | *** |

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| Total Marks | | 100 | 100 | 100 | 100 | 100 | . 50 | 20 | 50 | 50 |
|-----------------------------|-----------------|---|----------------------------------|--|----------------------------|-----------------------------|-----------------------------------|---|-------------------------------|--------------------------------|
| Semester End Examination | Duration | 3 Hrs | 3 Hrs | 3 Hrs | 3 Hrs | 3 Hrs | 4 Hrs | 4 Hrs | 4 Hrs | 4 Hrs |
| Semes | Marks | 75 | 75 | . 75 | 75 | 75 | 35 | . 35 | 35 | 35 |
| | Total | 25 | 25 | 25 | . 25 | . 25 | 15 | 15 | . 15 | . 15 |
| Internal Assessment | Sessional Exams | 1 Hr | 1 Hr | 1 批 | 1胎 | 1 Hr | 4 Hr | 4 Hrs | 4 Hrs | 4 Hrs |
| Internal | Session | 15 | 15 | 15 | 15 | . 15 | 10 | 10 | 10. | 10 |
| | Continuous | 10 | 10 | 10 | 10 | 10 | ٠. ک | S | ر د | S |
| Name of Course | | Pharmaceutical Organic Chemistry III- Theory | Medicinal Chemistry I- Theory | Physical Pharmaceutics II – Theory | Pharmacology I – Theory | Pharmacognosy I – Theory | Medicinal Chemistry I - Practical | Physical Pharmaceutics II – Practical | Pharmacology I – Practical | Pharmacognosy I – Practical |
| Course | | BP401T | BP402T | BP403T | BP404T | BP405T | BP406P | BP407P | BP408P | BP409P |

Semester-V

| BP501T Medicinal Chemistry II — 10 Continuous mode mode marks Duration Duration mode mode marks Continuous mode mode marks Marks Duration Duration mode mode marks Total mode mode mode marks Marks Duration mode mode marks Total mode mode marks Marks Duration mode mode marks Total marks Duration mode mode marks Total marks | Course | Name of Course | | Internal A | Internal Assessment | | Seme | Semester End | Total Marks |
|--|--------|---|------------|------------|---------------------|-------|-------|--------------|-------------|
| Medicinal Chemistry II – mode Marks Duration 75 Theory Industrial Pharmacy I – 10 15 1 Hr 25 75 Pharmacology II – Theory 10 15 1 Hr 25 75 Pharmacology II – Theory 10 15 1 Hr 25 75 Pharmacognosy II – 10 15 1 Hr 25 75 Pharmacoutical Jurisprudence – 10 15 1 Hr 25 75 Practical Pharmacy I – 5 10 4 Hr 15 35 Practical Pharmacology II – 5 10 4 Hr 15 35 Practical Pharmacognosy II – 5 10 4 Hr 15 35 Practical Pharmacognosy II – 5 10 4 Hr 15 35 Practical Pharmacognosy II – 5 10 4 Hr 15 35 Practical Pharmacognosy II – 5 10 4 Hr 15 35 | | | Continuous | Session | nal Exams | Total | Marks | Duration | |
| Medicinal Chemistry II — 10 15 1 Hr 25 75 Theory Industrial Pharmacy I — 10 15 1 Hr 25 75 Pharmacology II — Theory 10 15 1 Hr 25 75 Pharmacology II — Theory 10 15 1 Hr 25 75 Pharmacologo II — Theory 10 15 1 Hr 25 75 Industrial Pharmacy I — 5 10 4 Hr 15 35 Practical 5 10 4 Hr 15 35 Practical 5 10 4 Hr 15 35 Practical 7 10 4 Hr 15 35 | | | mode | Marks | Duration | | | | |
| Industrial Pharmacy I | BP501T | Medicinal Chemistry II – Theory | . 10 | 15 | 1 Hr | 25 | 75 | 3 Hrs | 100 |
| Pharmacology II – Theory 10 15 1 Hr 25 75 Pharmacognosy II – Theory 10 15 1 Hr 25 75 Pharmacoutical Jurisprudence – Theory 10 15 1 Hr 25 75 Industrial Pharmacy I – Fractical Pharmacology II – S 10 4 Hr 15 35 Practical Pharmacology II – S 10 4 Hr 15 35 Practical Pharmacognosy II – S 10 4 Hr 15 35 Practical Pharmacognosy II – S 5 10 4 Hr 15 35 Practical Total: 65 105 17 Hrs 170 480 | BP502T | Industrial Pharmacy I – Theory | 10 | 15 | 1 Hr | 25 | 75 | 3 Hrs | 100 |
| Pharmacognosy II - 10 15 1 Hr 25 75 75 1 Hr 25 75 1 Hr 25 75 1 Hr 25 75 25 25 25 25 25 25 | BP503T | Pharmacology II - Theory | 10 | 15 | 1 Hr | 25 | 75 | 1 | |
| Pharmaceutical Jurisprudence – Theory 10 15 1 Hr 25 75 Theory Industrial Pharmacy I – Practical Pharmacology II – Practical Pharmacognosy II – S 5 10 4 Hr 15 35 Practical Pharmacognosy II – Practical Pharmacognosy II – S 5 10 4 Hr 15 35 Practical Pharmacognosy II – S 5 10 4 Hr 15 35 Practical Pharmacognosy II – S 10 4 Hr 15 35 | BP504T | Pharmacognosy II – Theory | . 10 | 15 | 1. 出 | 25 | 75 | 3 Hrs | 100 |
| Industrial Pharmacy I – 5 10 4 Hr 15 35 Practical Pharmacology II – 5 10 4 Hr 15 35 Practical Pharmacognosy II – 5 10 4 Hr 15 35 Practical Pharmacognosy II – 5 10 4 Hr 15 35 Practical Total: 65 105 17 Hrs 170 480 | BP505T | Pharmaceutical Jurisprudence – Theory | 10 | 15 . | 1 Hr | . 25 | \$7. | 3 Hrs | 100 |
| Pharmacology II − 5 10 4 Hr 15 35 Practical Practical Total: 65 105 17 Hrs 170 480 | BP506P | Industrial Pharmacy I – Practical | S | 10 | 4 Hr | 15 | 35 | 4 Hrs | 20 |
| Pharmacognosy II – 5 10 4 Hr 15 35 15 15 15 15 15 15 | BP507P | Pharmacology II – Practical | . 5 | 10 | 4 Hr | 15 | 35 | 4 Hrs | . 20 |
| 65 105 17 Hrs 170 480 | BP508P | Pharmacognosy II – Practical | 5 | 10 | 4 Hr | 15 | 35 | 4 Hrs | 90 |
| | | Total: | . 65 | 105 | 17 Hrs | 170 | 480 | 27 Hrs. | 020 |

Semester-VI

| Code | Name of Course | ų. | Internal Assessment | sessment | | Semes Exam | Semester End Examination | Total Marks |
|--------|------------------------------|------------|---------------------|-----------------|-------|---------------|-----------------------------|-------------|
| | | Continuous | Sessior | Sessional Exams | Total | Marks | Duration | |
| | | mode | Marks | Duration | | | | |
| BP601T | Medicinal Chemistry III - | 10 | 15 | 1 Hr | 25 | 75 | 3 Hrs | 100 |
| | Theory | | •• | | | | | |
| BP602T | Pharmacology III-Theory | . 10 | 15 | 1. I. I. | 25 | 75 | 3 Hrs | 100 |
| BP603T | Herbal Drug Technology – | . 01 | . 15. | 1 肝 | 25 | . 75 | 3 Hrs | 100 |
| | Theory | | | | | | | |
| BP604T | Biopharmaceutics and | 10 | . 15 | 1 肝 | 25 | 75 | 3 Hrs | 100 |
| | Pharmacokinetics - Theory | | | | | | | |
| BP605T | Pharmaceutical | 10 | 15 | 1 Hr | 25 | 75 | 3 Hrs | 100 |
| | Biotechnology-Theory | 3 | | | | | | |
| BP606T | Quality Assurance- Theory | 10 | 15 | 1 Hr | 25 | 75 | 3 Hrs | 100 |
| BP607P | Medicinal chemistry III - | Ş | 10 | 4 Hrs | 15 | 35 | 4 Hrs | 50 |
| | Practical | | | | | | | |
| BP608P | Pharmacology III - Practical | 5 | 10 | 4 Hrs | 15 | 35 | 4 Hrs | 20 |
| BP609P | Herbal Drug Technology – | 5 | 10 | 4 Hrs | 15 | 35 | 4 Hrs | 50 |
| | Practical | | | | | | | |
| | Total | 75 | 120 | 18 Hrs | 195 | 555 | 30 Hrs | 750 |

Semester-VII

| Continuous mode marks Duration Duration Total Marks 10 15 1 Hr 25 75 5 10 4 Hrs 15 35 25 - 25 125 25 - 25 125 | Course | Name of Course | | Internal , | Internal Assessment | | Semes | Semester End Examination | Total Marks |
|--|----------|--|------------|------------|---------------------|------------|-------|--|-------------|
| Instrumental Methods of Analysis – 10 | | | Continuous | Session | nal Exams | Total | Marks | Duration | |
| Instrumental Methods of Analysis – 10 15 1 Hr 25 75 75 1 Heory 10 15 1 Hr 25 75 75 1 Harmacy Practice – Theory 10 15 1 Hr 25 75 75 1 Heory 10 15 1 Hr 25 75 75 1 Heory 10 15 1 Hr 25 75 1 Heory 10 15 1 Hr 25 75 1 Heory 10 25 75 1 Heory 10 25 15 125 | | | mode | Marks | Duration | | | | |
| Industrial Pharmacy – Theory 10 15 1 Hr 25 75 Pharmacy Practice – Theory 10 15 1 Hr 25 75 Novel Drug Delivery System – Theory 10 15 1 Hr 25 75 Theory Instrumental Methods of Analysis – 5 5 10 4 Hrs 15 35 Practice School* 25 - - 25 125 Practice School* 70 9 Hrs 4.00 4.00 | BP701T | Instrumental Methods of Analysis – Theory | 10 | 15 | : 1 Hr | 25 | 75 | 3 Hrs | 100 |
| Pharmacy Practice - Theory 10 15 1 Hr 25 75 75 Novel Drug Delivery System - 10 15 1 Hr 25 75 75 Theory Instrumental Methods of Analysis - 5 10 4 Hrs 15 35 Practice School* 25 - 25 125 Total 70 9 Hrs 440 | BP702T | Industrial Pharmacy – Theory | 10 | 15 | 1 17. | 30 | . 36 | *** | |
| Novel Drug Delivery System – 10 15 1 Hr 25 75 75 Novel Drug Delivery System – 10 15 1 Hr 25 75 75 Theory Instrumental Methods of Analysis – 5 10 4 Hrs 15 35 75 Practice School* 25 - 25 125 75 75 Practice School* 25 - 25 125 70 20 Hrs 25 25 25 25 25 25 25 2 | Trong | | | 2 | 11.11 | C7 | (7) | 2 HIS | 100 |
| Novel Drug Delivery System – 10 15 1 Hr 25 75 Theory Instrumental Methods of Analysis – 5 10 4 Hrs 15 35 Practice School* 25 - 25 125 Total 70 9 Hrs 4.00 4.00 | DF/031 | Fnarmacy Fractice – Theory | 10 | 15 | 1肝 | 25 | 75 | 3 Hrs | 100 |
| Theory T | BP704T | Novel Drug Delivery System – | 10 | 15 | 11. | 25 | 75 | 2 Hrs | 100 |
| Instrumental Methods of Analysis - 5 10 4 Hrs 15 35 15 35 15 15 15 15 | | Theory | | | | } . | 2 | SITT C | 9 |
| Practical 25 25 25 125 Practice School* 70 9 Hzg. 125 125 | BP705 P | Instrumental Methods of Analysis - | 5 | 10 | 4 Hre | 15 | 35 | 4 III. | 0.5 |
| Practice School* 25 - 25 125 Total 70 70 9 Hzg 440 450 | | Practical | | | 2 | 3, | | 4 mis | 000 |
| Total 70 1: 70 8 Hz. 440 4.00 | DO SULTE | Denotion Cohoo!* | 20 | | | | | The second secon | |
| 70 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | DI VOOLS | riacuce school* | 72 | • | | 25 | 125 | 5 Hrs | 150 |
| 071 0113 | | Total | . 02 | 04 | 8 Hrs | 140 | 460 | 21 Hre | 009 |

* Non University Examination (NUE)

Semester-VIII

| Code | | | | | | Exan | Examination | |
|---------|--|------------|-------------|-----------------|--------|---------|-------------|-----------|
| | | Continuous | Session | Sessional Exams | Total | Marks | Duration | |
| | | mode | Marks | Duration | | | | |
| BP801T | Biostatistics and Research | 10 | 15 | 1 Hr | 25 | 75 | 3 Hrs | 100 |
| TCOORD | Social and D. C. m. | | 1.0 | 1 11 | | | | 00, |
| BF 8021 | Social and Freventive Fnarmacy— Theory | OI | 2 | 1 Hr | 52 | S | 3 Hrs | 001 |
| BP803ET | Pharmaceutical Marketing - | | | | | | | |
| | Theory | | | | | | | |
| BP804ET | Pharmaceutical Regulatory | | | | | | | |
| | Solding - Theory | | | | | | | |
| BP805ET | Pharmacovigilance - Theory | | | | | | | |
| BP806ET | Quality Control and | | | • | | | | |
| 1 | Standardization of Herbals – | | | | .* | | | |
| | Theory | | 16:16 | | | | , | 001.001 |
| BP807ET | Computer Aided Drug Design – | 10+10=20 | 13+13 | 7= I+I | C7+ C7 | C/ + C/ | 3+3=0 | = 001+001 |
| | Theory | | : 2 1 | STEE | 2 | 001 - | SIII | 7007 |
| BP808ET | Cell and Molecular Biology – | * | | 6) | | | | |
| | Theory | | | | | | | |
| BP809ET | Cosmetic Science - Theory | | *5 | | | | | |
| BP810ET | Experimental Pharmacology – | | | | 38 | | | |
| | Theory | | | 88 | * | | | |
| BP811ET | Advanced Instrumentation | | | | | 2011 | | |
| | Techniques – Theory | | | | | | | |
| BP812PW | Project Work | 1 | • | ı | 1 | 150 | 4 Hrs | 150 |
| | Total | 40 | 07 | / U. | 100 | 450 | 1/ II | |