

INFORMATION BROCHURE

BACHELOR OF PHARMACY PROGRAM

(Recognized by Govt. of Maharashtra, approved by AICTE & PCI & affiliated to SRTM University, Nanded)

DIPLOMA IN PHARMACY CERTIFICATE PROGRAM

(Recognized by Govt. of Maharashtra, approved by AICTE & PCI, affiliated to MSBTE, Mumbai)

**SHRI SHARDA BHAVAN EDUCATION SOCIETY'S
NANDED PHARMACY COLLEGE (POLY)
NANDED PHARMACY COLLEGE
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- 1. MISSION: EDUCATION IS ENLIGHTENMENT**
- 2. INTRODUCTION**

2.1 SHRI SHARDA BHAVAN EDUCATION SOCIETY

Shri Sharda Bhavan Education Society is providing educational opportunities to people since 1952. It is entrusted to promote education in general and provide opportunities in higher, technical and professional education in particular to those who are desirous of undertaking it. The Society manages & runs various schools & colleges including NPCP & NPC in & around Nanded city.

2.2 NANDED PHARMACY COLLEGE (POLY) - (NPCP)

The NPCP is an affiliate institute to the Maharashtra State Board of Technical Education, Mumbai. The institute receives Govt. grant- in- aid & has a diploma level polytechnic status. The polytechnic runs only a 2-year diploma in pharmacy certificate program since 1982. This is a minimum competency certificate course sufficient to enroll with the Maharashtra State Pharmacy Council for professional practice as a registered pharmacist as per provisions of Pharmacy Act 1948. The training is focused at development of skills in dispensing of medications in a drug store & hospital in accordance with conditions of license under Drugs & Cosmetics Act, 1940. The First class diploma holders are held qualified & eligible for further higher studies (B. Pharm) directly in to second year of the 4 year degree program with certain conditions. Diploma holders with minimum 50% marks are eligible for admission in to F Y B Pharm class.

2.3 NANDED PHARMACY COLLEGE (NPC)

The NPC is an affiliate college to the Swami Ramanand Teerth Marathwada University, Nanded. The college runs B. Pharm. program since 1996. The morale of the institute is high and it assures the market forces to develop outputs at par with the institutions of excellence in this field. The training is focused at development of problem solving skills in the areas of manufacture of pharmaceuticals, community pharmacy practice & clinical pharmacy at undergraduate level.

3. LOCATION

The polytechnic & college is provided with 4 acres of land & is located in the heart of the city and is well connected by road. Nanded is a municipal corporation in the state of Maharashtra, India & is a district headquarters. The city is situated at the bank of river Godavari. The polytechnic & the college are in the same campus & are about 2 km away from railway station & bus stand alike. Public transport system is readily available.

4. HOW CONNECTED

Nanded is directly connected by rail to other parts of the country like Amritsar, Delhi, Mumbai, Pune, Aurangabad, Benglore and Hyderabad and to all other major cities of the State by road. The nearest international & domestic airports are Mumbai (650 km) & Aurangabad (265 km), Hyderabad (265 km) respectively.

5. INFRASTRUCTURE

Both the polytechnic & college have infrastructure as per the norms and standards of AICTE; it includes a spacious library with more than 2400 titles, laboratories, classrooms, computer laboratory with internet facility, instrument room and amenities like boys and girls common and recreation rooms, play ground, central facilities like auditorium, seminar hall, bank etc.

6. THE PROGRAM (s)

- The diploma in pharmacy is a 2- year program leading to award of a certificate from MSBTE, Mumbai. The program is aimed at development of trained technical manpower in delivering goods in ancillary health care support services in the form of professionals & entrepreneurs. The details are described in teaching & examination scheme.
- The bachelor of pharmacy is a four-year program leading to award of a degree in pharmacy conferred upon a candidate by the Swami Ramanand Teerth Marathwada University, Nanded. The program is aimed at creating technical manpower in accordance with the policy of the Government of India in its business of pharmaceuticals in health and hygiene. The program consist of subjects in pharmaceutical sciences viz. Pharmaceutics, Pharmaceutical Chemistry, Pharmacology and Pharmacognosy along with knowledge of basic & applied sciences, mathematics & statistics, engineering, technical art, management, law, medicine and social sciences as interdisciplinary subjects having bearing upon it. **The subjects are divided in to unit courses at every level of the program to be attempted by a student as papers.** The details are described in the Teaching and examination scheme. The various courses are designed in a manner to develop skills among students such that, enough competency is gained to deliver goods in health care services as clinical pharmacist, hospital pharmacist, community & dispensing pharmacist, in industry for manufacture of pharmaceuticals & its management. The graduates are eligible to compete for civil services examination. It also serves as a platform for further higher studies, research & development.

7. ADMISSION

The State Government monitors candidates for admissions in to D. Pharm & allots & monitors candidates for B. Pharm Program admissions as per guidelines/ rules notified by it . The competent authority in this regard is Director, Directorate of Technical Education, Maharashtra State, 3 Mahapalika Marg, Dhobi Talao, Mumbai 400 001. **The admissions are effected as per the guidelines (Rules) by the college through its process of admission.**

8. RULES FOR ADMISSION

The rules of admissions shall be as issued by the competent authority from time to time. The candidates are advised to look for the admission notification & the information brochure of the institute there upon. Usually the advertisement notification is published soon after declaration of HSC results and in the month of June every year.

9. WHO CAN APPLY

Admissions to F Y D.Pharm are open to Maharashtra domiciled candidates only. Admissions to F Y B. Pharm are open to all eligible Maharashtra State domicile candidates, out side Maharashtra students (OMS), Foreign Nationals / Persons of Indian origin (PIO) / Non Resident Indians (NRI) may also apply. **The J&K migrants, GOI nominees, defense service personnel sons & daughters are advised to apply through proper channel.**

10. PROVISIONAL ADMISSION

10.1 PROVISIONAL ADMISSION TO F.Y.D.PHARM.

The college admits candidates through a process of admission and on merit. All admissions are subject to final approval of the merit list by the Director, Directorate of Technical Education, Mumbai & eligibility & enrolment granted by the MS BTE, Mumbai. The candidates are advised to look for the schedule of the process of admission displayed on the notice board of the polytechnic.

10.2 PROVISIONAL ADMISSION TO F.Y. B.PHARM.

The college admits eligible candidates to first year of the program provisionally. These include State, OMS (20% management quota within sanctioned intake), children of Indian Workers in Gulf

Countries (1/3 of 15% of FN/PIO quota), FN/ PIO (15% on & above sanctioned intake). Eligible candidates may apply to the college authority. These admissions are subject to confirmation by the competent authority and eligibility granted by the university. The supernumerary seats are subject to AICTE certificate to that effect. Till such time candidates shall not have any claim.

In case of Maharashtra domicile candidates they are advised to look for schedule of admission displayed on the notice board of the college. No other mode of display is possible.

All admissions made shall be subject to final approval of the merit list by the Director, Directorate of Technical Education, Mumbai and eligibility granted by Swami Ramanand Teerth Marathwada University, Nanded.

10.3 PROVISIONAL ADMISSION TO S. Y. B.PHARM.

Subject to availability of seats, provisional admissions are offered to eligible (First class Diploma holders in Pharmacy) candidates by the college on merit.

All admissions made shall be subject to final approval of the merit list by the Director, Directorate of Technical Education, Mumbai and eligibility granted by Swami Ramanand Teerth Marathwada University, Nanded

10.4 SCHEDULE OF ADMISSION PROCESS

The schedule of admission shall be displayed by the college every year soon after declaration of H.S.C. results on the college / polytechnic notice board.

10.5 WAITING LIST

The waiting list shall be displayed on the notice board of the college / polytechnic. The candidate on waiting list shall not be send any letters please note.

11. QUALIFICATION AND ELIGIBILITY

11.1 F.Y.D.PHARM.

For admission to the first year of the diploma course in Pharmacy, the candidate should have passed the Higher Secondary Certificate (Std. XII) examination of Maharashtra State Board of Secondary and Higher Secondary Education, or any other examination declared by the said Board to be equivalent thereto, with and in (1) Physics, (2) Chemistry, (3) Biology or Mathematics, and (4) English. The medium of instruction should be in English.

11.2 F. Y. B PHARM.

To be eligible for admission to FY, a candidate should have passed the HSC (Std. XII) examination of Maharashtra State Board of Secondary and Higher Secondary education or its equivalent &

1. Should have secured minimum 50% marks (45% for backward class candidates from Maharashtra) in the Subjects Physics, Chemistry & the subject of maximum marks amongst Biology/Mathematics/Biotechnology/computer Science added together.
2. Must be a pass in English as one of the subjects.
3. Must have a Non-zero score either in current years' AIEEE for pharmacy/ MAH-PH-CET/ CET for pharmacy conducted by an approved Association of all pharmacy colleges in the State of Maharashtra.

OR

A pass with 50 % aggregate marks at Diploma in Pharmacy examination conducted by an examination authority of a State.

11.3 SPECIAL ELIGIBILITY FOR F.Y.B.PHARM.

The students admitted with PCM groups (Physics, Chemistry & Mathematics) shall have to undergo a Remedial Biology course (Theory & Practical) before admission to first year examination of the program.

The candidates admitted with PCB group (Physics, Chemistry and Biology) shall have to undergo a Remedial Mathematics course before admission to first year examination of the program.

The students admitted with PCB & M group are exempted from Remedial courses in Biology Or Mathematics.

Candidate admitted with Biotechnology Or Computer Science as one of the courses and not having studied Biology Or Mathematics shall have to undergo courses in Biology and Mathematics as the case may be.

11.4 DIRECT IN TO S.Y. B.PHARM.

The candidates should have passed HSC examination with Physics, Chemistry and Biology / Mathematics (Or both) from Board of Higher Secondary examination, Maharashtra State or equivalent (Candidates who have not offered either Mathematics or Biology at XII std. examination shall have to undertake a course in remedial biology / remedial mathematics as a special eligibility criteria before being admitted to the second year examination) & Diploma course in Pharmacy (as per ER-91 regulations) course conducted by the Maharashtra State Board of Technical Education or equivalent in **First Class** in one attempt.

12. INTAKE & DISTRIBUTION OF SEATS

AVAILABILITY & DISTRIBUTION OF SEATS AT NANDED PHARMACY COLLEGE (POLY) FOR F Y D PHARM

| Course | Intake | DISTRIBUTATION OF SEATS | | | | | | | | | | |
|---------|--------|----------------------------|-----|----|----|----|----|-----|-----|-----|-----|--------|
| | | CONSTITUTIONAL RESERVATION | | | | | | | | | | FN/PIO |
| | | Open | DSP | PH | SC | ST | VJ | NT1 | NT2 | NT3 | OBC | |
| D.Pharm | 60 | 25 | 03 | 02 | 08 | 04 | 02 | 02 | 02 | 01 | 11 | NIL |

AVAILABILITY OF SEATS OF NANDED PHARMACY COLLEGE WITH CAP AND OTHER AUTHORITY FOR F.Y.B.PHARM

| Course | Intake | 65% Seats as per R 2.6-1 with CAP | 15% AIEEE seats With CAP | Total with CAP | 30% State Level seats of 65 % seats with CAP Round-1A | 70% University level seats of 65 % seats with CAP Round-1A | 15% AIEEE qualifiers as per Col.No.3 Round- 1B | 20% seats with Principal of Unaided College | Note: Admission to seats remaining vacant after Round 1A & Round 1B shall be treated as ' seats available ' & such available seats shall be merged with 20% under management seats. |
|---------|--------|-----------------------------------|--------------------------|----------------|-------------------------------------------------------|------------------------------------------------------------|------------------------------------------------|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| B Pharm | 40 | 26 | 06 | 32 | 08 | 18 | 06 | 08 | |

DISTRIBUTION OF SEATS OF NANDED PHARMACY COLLEGE, NANDED BY CAP AND OTHER AUTHORITIES

| Sr. No. | Allotment | Open | | DSP | | PH | | SC | | ST | | VJ | | NT-1 | | NT-2 | | NT-3 | | OBC | | Total | Supernumerary seats Principal, Un-aided college as authority | | JK DTE as admission Authority | GOI Nominee DTE as admission Authority |
|--------------|------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--------------------------------------------------------------|--------------------------------------------|-------------------------------|----------------------------------------|
| | | M | F | M | F | M | F | M | F | M | F | M | F | M | F | M | F | M | F | M | F | | FN / PIO | Children of Indian Works in Gulf Countries | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 30 % State level seats | 2 | 1 | 1 | -- | - | - | - | 1 | - | -- | 1 | - | - | - | - | 1 | - | - | 1 | - | 08 | 04 | 02 | 01 | 01 |
| 2 | 70% University Level Seats | 5 | 2 | - | 1 | 1 | - | 1 | - | -- | 1 | -- | - | 1 | - | - | - | 1 | - | 3 | 2 | 18 | | | | |
| 3 | 15% AIEEE Seats | 2 | 1 | - | - | - | - | 1 | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | 06 | | | | |
| 4 | 20% Seats with Principal NPC | 3 | 1 | - | - | - | - | 1 | - | 1 | - | - | - | - | - | - | - | - | - | 2 | - | 08 | | | | |
| Total | | 12 | 05 | 01 | 01 | 01 | -- | 03 | 02 | 02 | 01 | 01 | -- | 01 | -- | -- | 01 | 01 | -- | 06 | 02 | 40 | 04 | 02 | 01 | 01 |

The Govt. of Maharashtra has kept 30% quota for females within the sanctioned intake. It shall be filled during the process of admission. If required numbers of female applicants are not available then the seats shall be filled from male candidates. Female quota does not mean reservation but it ensures requisite number of female candidates according to merit; if not, by priority.

- * Supernumerary seats for FN / PIO is subject to AICTE certificate; the college has applied for it.
- * JK & GOI quota is filled separately by the Competent Authority (DTE).

Note: This is merely an example. The availability & distribution of seats is as displayed by representative of the Competent Authority while Allotment. The students are advised to check the chart / distribution at the ARCs or on www.dte.org.in.

13. SEATS FOR J&K MIGRANTS

One seat on and above the sanctioned intake. Eligible candidates are advised to contact the Competent Authority.

14. SEATS FOR GOI NOMINEES

A specified number of seats are reserved for the nominees from states and union territories, which lack the facility of education in pharmacy. Ministry of Human Resource Development (MHRD), Government of India determines these seats every year. These seats are over and above the sanctioned intake for the college / Institute in which admissions against this provision are provided. Candidates are advised to contact the Competent Authority.

15. SEATS FOR FOREIGN NATIONALS,PIO & CHILDREN OF INDIAN WORKERS IN GULF COUNTRIES

The college admits six seats (15%) on and above intake. The competent authority in this regard is principal. Candidate may apply directly to the principal. The enquiries for provisional admission are accepted well ahead of the admission process i.e. from the month of April every year to facilitate endorsement of visa & other relevant formalities. Log on to www.nandedpharmacycollege.org for more details.

16. SEATS FOR OMS

The college admits those OMS candidates in F Y B Pharm who have appeared for AIEEE or MAH-PH-CET Or CET in pharmacy conducted by Association of All Pharmacy Colleges in the Maharashtra State. After exhausting its merit list and subject to vacancy, if any, Non-AIEEE or Non-MAH-PH-CET Or Non-APCMS-PH-CET OMS candidates may be considered for admission on 10+2 group marks (50%) subject to approval from Director of Technical Education, Mumbai. Candidates are advised to send enquiry for application form and Broacher in the month of June every year. Such admissions shall be made after the last date of admission but not latter than 02-08-2004. Log on to www.nandedpharmacycollege.org for more details. No seats for OMS candidates in D.Pharm.

17. SEATS FOR PHYSICALLY HANDICAPPED

There are 3% seats reserved in both the programs within the sanctioned intake capacity. Candidates are advised to consult information brochure at Sr. No. 12. The opportunities to physically handicapped candidates are as per clause 39 of Equal opportunities, Protection of Right and Full Participation Act, 1995. The categories of PH seats are as follows;

1. 1% seat for blind candidates
2. 1% for speech and hearing impaired (deaf & dumb)
3. 1% for candidates with orthopedic disorders or mentally retarded.

In all above cases a candidate shall have to produce a certificate along with application form in the prescribed proforma "B" from the Director, All India Institute of physically Handicapped, Mumbai or Civil surgeon regarding his or her physical disability and ability to undergo all parts of syllabus such as theory, practical etc for the course.

It should be noted that, the PH candidates on admission to pharmacy degree or diploma course shall not be given any exemptions. Facility to certain extent in laboratories is provided to undertake smooth performance of experiments.

18. SEATS FOR FEMALES

There is a 30% quota for female candidates in both the programs. As per the provisions in Maharashtra State Govt. Resolution No GEC-1000/(123/2000)/ Tech. Edu.-1, dated 17th April, 2000, 30% seats of sanctioned intake capacity shall be reserved for female candidates in all the Govt., Non Govt.-Aided University managed, Unaided Pharmacy colleges, University Departments and Polytechnics, This reservation shall be within all categories like Open, SC, ST, VJ, NT-1, NT-2, NT-3, and OBC. If requisite numbers of female candidates are not available for admission in any of the backward class categories then the male candidates belonging to the respective category shall fill such vacant seats. Candidates are advised to consult information brochure at Sr. No. 12.

19. SEATS FOR BACKWARD CLASS

Seats are reserved for backward class candidates from Maharashtra State only. Candidates are advised to consult information at Sr. No. 12. It should be noted that all backward class candidates are required to produce caste validity certificate/ non creamy layer certificate at the time of admission or latest within 12 weeks of confirmed admission otherwise their admission shall be treated as cancelled.

20. SEATS FOR SONS/DAUGHTERS OF DEFENSE SERVICE PERSONNEL

5% Seats are reserved for sons/daughters of defense service personnel in both the programs. Candidates are advised to consult information brochure at Sr. No. 12.

21. DOCUMENTS (F.Y. D.Pharm & B.Pharm)

Xerox copies of following documents needs to be submitted along with the application form, the originals should be presented at the time of actual admission along with 03 passport size photographs.

- 1.SSC (Std.X) Mark Sheet
- 2.HSC (Std.XII) Mark Sheet
- 3.School leaving certificate after passing H.S.C. (Std. XII) or bonafide certificate.
- 4.Eligibility certificate from SRTM University, Nanded in case of FN/PIO/NRI
- 5.Certificate / proof in case of Foreign National / PIO/ NRI status (Passport).
- 6.Migration certificates
- 7.Gap in education certificate.
- 8.Attempt certificate
- 9.Domicile certificate
- 10.Age & nationality certificate
- 11.Caste Certificate in case of BC candidates
- 12.Caste Validity certificate in case of BC candidates
- 13.Non Creamy layer certificate valid for the current year (i.e. after 1st April 2003) in case of NT-2, NT-3 and OBC / SBC candidates.

21.1 IN CASE OF FOREIGN NATIONAL/PIO/ CHILDREN OF INDIAN WORKERS IN GULF COUNTRIES, CANDIDATES ARE REQUIRED TO SUBMIT FOLLOWING DOCUMENTS TO THE UNIVERSITY THROUGH THE COLLEGE.

- a) The certificate issued by Indian Diplomatic Mission or Chancellery or Commission abroad under their seal stating that the father / parent of the applicant is an Indian resident in that country.
- b) Original certificate of the qualifying examination
- c) Copy of student visa showing name of SRTM University, Nanded & Nanded Pharmacy College Nanded.
- d) Valid Police Registration (resident permit) issued by the local Police Authority.
- e) Medical Certificate from Government Medical Hospital regarding AIDS.
- f) Eligibility form along with fees US \$ 300/-

21.2 DOCUMENTS FOR DIRECT ADMISSIONS TO S.Y. B.PHARM

The application must accompany the attested copies of following documents

- a) Statement of marks obtained in qualifying examination (S.Y. Diploma in Pharmacy)
- b) Statement of marks in the first year Diploma in Pharmacy
- c) Statement of marks at the H.S.C. or its equivalent examination
- d) Statement of marks at the S.S.C. or its equivalent examination
- e) Polytechnic leaving certificate or bonafide certificate.

22. EQUIVALENE FROM AIU INCASE OF FOREIGN NATIONAL /PIO/ CHILDREN OF INDIAN WORKERS IN GULF COUNTRIES.

The Foreign National /PIO/NRI students are advised to obtain an equivalence certificate from Association of Indian Universities (AIU), New Delhi regarding equivalence of their Std.XII examination with Indian Std.XII examination. Usually the information published by AIU in this regard is available with Universities/colleges.

23. GRADES CONVERSION IN TO MARKS CERTIFICATION OR TRANSCRIPT

The Foreign National /PIO/Children of Indian Workers in Gulf Countries students are advised to produce certificate of conversion of grades in to corresponding marks from their respective examination authorities / Embassies.

24. ADDITIONAL INSTRUCTIONS FOR OMS (No seats for OMS candidates in D.Pharm.)

- a) OMS shall submit their applications on or before the last date prescribed by the college.
- b) OMS admissions shall be done by counseling.
- c) OMS will be considered only in open category, even if they belong to reserved category in their state. No relaxation is allowed in eligibility criteria.
- d) If any document to be produced is in the language other than Marathi, Hindi or English, candidates shall produce its English translation duly attested by an Executive Magistrate or the Principal of the Institute.
- e) OMS shall remain present personally for admission. No proxy will be allowed even if a candidate authorizes any other representative. If the candidate remains absent as per the schedule, he or she shall forfeit claim for admission.
- f) OMS shall produce original school/college leaving certificate of the institute last attended at the time of admission. If the candidate has taken admission in any other institute, he or she shall produce a certificate from the head of the institute stating that, institute has retained the original certificates. Without such certificate, no candidate shall be considered for admission. However, original certificate shall have to be produced within 07 days in any case.

g) No duplicate-leaving certificate will be accepted.

h) If there is a gap between passing of his or her qualifying examination and the year of admission, the candidates shall submit an affidavit on a stamped paper stating the factual position for the gap.

25. CONDUCT & DISCIPLINE

Notwithstanding anything contained in Rules, if the Govt. takes any policy decision pertaining to first year/ second year Pharmacy admissions, then the same shall be brought in to effect at that point of time as per the directives from the Govt. from time to time.

The students while studying in the college, if found indulging in anti-national activities contrary to the provisions of Acts and Laws enforced by Government or in any activity contrary to rules of discipline, will be liable to be expelled from the college without any notice by the principal.

Action against ragging:

Maharashtra prohibition of Ragging Act, 1999 that is in effect from 15th May 1999 has the following provisions for action against Ragging.

a) Ragging within or outside of educational institution is prohibited.

b) Whosoever directly or indirectly commits, participates in, abets, or propagates ragging within or outside educational institution shall on conviction, be punished with imprisonment for a term up to 2 years and / or penalty which may extend to ten thousand rupees.

c) Any student convicted of an offence of ragging shall be dismissed from the educational institution and such student shall not be admitted in any other educational institution for a period of five years from the date of order of such dismissal.

d) Whenever any student or, as the case may be, the parent or guardian or a teacher or an educational institution complains, in writing, or ragging to the head of the educational institution shall, without prejudice to the foregoing provisions, within seven days of the receipt of the complaint, enquire into the matter mentioned in the complaint and if, prima facie, it is found true, suspend the student who is accused of the offence, and shall, immediately forward the complaint to the police station having jurisdiction over the area in which the educational institution is situated, for further action. Where, on enquiry by the head of the educational institution, it is found that there is no substance, prima facie, in the complaint received, he /she shall intimate the fact, in writing, to the complainant. The decision of the head of the educational institution shall be final.

e) If the head of the educational institution fails or neglects to act in the manner specified in section "D" above when a complaint of ragging is made, such person shall be deemed to have abetted the offence and shall, on conviction, be punished as provided for in section "B" above.

If any of the statement made in application form or any information supplied by the candidate in connection with his or her admission is later on at any time, found to be false or incorrect, his or her admission will be cancelled, fees forfeited and he or she may be expelled from the college by the Principal. An appeal against the order or expulsion, however, may be preferred within 7 days to the Director of Technical Education, Maharashtra State, Mumbai, whose decision in such cases will be final

26. UNDERTAKING:

All candidates who shall be admitted shall be deemed to have submitted the following undertaking.

- a) I have read all the Rules of Admission and after understanding these rules thoroughly, I have filled in the application form for admission for the current year.
- b) The information given by me in my application is true to the best of my knowledge and belief. I understand that if any of the statements made by me in the application form or any information supplied by me in connection with my admission is later on at any time, found to be false or incorrect, my admission will be cancelled, fees forfeited and I may be expelled from the college by the Principal.
- c) I have not been debarred from appearing at any examination held by any Government constituted or statutory examination authority in India.
- d) I fully understand that the offer of a course will be made to me depending on my inter se merit and availability of a seat at the time of scrutiny of my application, when I will actually report to the admission authority according to the schedule of admission.
- e) I understand that no document after the last date of submission will be entertained for the purpose of claims or concessions etc. in connection with my admission unless otherwise mentioned in the rules.
- f) I am fully aware that the competent Authority or its representative will not make any correspondence with me regarding admission. I am also aware that it is entirely my responsibility to see the notices on the notice boards of concerned Admission Center.
- g) I am aware that any rule imposed by the University such as imposing limits on the number of attempts permissible to pass any examination shall be binding on me.
- h) I hereby agree to confirm to any Rules, Acts and Laws enforced by Government and I hereby undertake that, I will do nothing either inside or outside the college which may result in disciplinary action against me under these rules, acts and laws referred to.
- i) I fully understand that the Principal of the college where I am admitted / would be admitted has a right to expel me from the college for any infringement of the rules of conduct and discipline prescribed by the college or University or Government and the undertaking given above.
- j) **Condition of minimum attendance:** I am fully aware that, I will not be allowed to appear for the examination if I do not attend minimum 75% classes of theory, practical, drawing etc. I am also aware that I will not be allowed to appear for the examination, if I fail to submit satisfactorily all the assignments, jobs, journals, and drawings, industrial training, reports as specified by the University within stipulated time limit.
- k) I fully understand that, I have voluntarily joined the program (D.Pharm./B.Pharm) and is aware of the risk and delicacy of handling instruments, equipments, machineries & Laboratory hazardous & explosive consumables (chemicals & reagents etc.). I promise to abide to the rules of respective laboratories and workshops / machine room / instrument room & shall pay proper attention to the instructions of the teachers and the staff before being start of the practical work. I shall not claim for any damages for negligence on my part from the college / polytechnic.

27. AGE LIMIT

There is no age limit for admission to first year of four-year degree program in Pharmacy.

28. ACCOMODATION

Girls hostel is available. Candidates should mention about hostel while applying, however hostel accommodation is not guaranteed. The candidate shall have to deposit Rs. 1000/- as caution money deposit & is refundable subject to no dues. The current accommodation rate per academic year is Rs. 6000/- to be paid at the beginning of the term. Food charges are separate. Private accommodation for boys is available in near by area of the college on rent.

29. FEES STRUCTURE

Annual fees structure for 2004-05 per student per year of B.Pharm & D.Pharm is as follows.

| SR. NO | TYPE OF FEES / CHARGES | B.Pharm | B.Pharm FN/PIO/NRI | D.Pharm |
|-------------------------------|---------------------------------------------------------|--------------|--------------------|------------|
| 1. | Tuition Fees | Rs. 26,000/- | \$ 2250/- | Rs. 6000/- |
| 2. | Development fees | Rs. 8,000/- | \$ 1500/- | Rs. 3000/- |
| 3. | Admission Fees | Rs. 100/- | Rs. 100/- | Rs. 100/- |
| 4 | Library & Laboratory caution money deposit (Refundable) | Rs. 500/- | Rs. 500/- | Rs. 200/- |
| 5 | Gymkhana (Identity card, Magazine, Medicine) | Rs. 1000/- | Rs. 500/- | Rs. 200/- |
| 6 | Training and placement | Rs. 500/- | Rs. 50/- | Rs. 50/- |
| 7 | Library Fees | Rs. 500/- | Rs. 300/- | Rs. 100/- |
| 8 | Internet / E-mail | Rs. 300/- | Rs. 150/- | Rs. 150/- |
| 9 | Annual social event / Gathering | Rs. 500/- | Rs. 100/- | Rs. 100/- |
| 10 | Additional charges | -- | -- | Rs. 350/- |
| 11 | College sessional Charge | -- | -- | Rs.300/- |
| 12 | Laboratory & Drugs Fees (Lab Consumables) | 1000/- | 1000/- | Rs. 200/- |
| 13 | Student aid fund | -- | -- | Rs. 200/- |
| 14 | Student activity | -- | -- | Rs. 500/- |
| 15 | Reading room | -- | -- | Rs. 200/- |
| 16 | Contingency | -- | -- | Rs.500/- |
| Other Charges and fees | | | | |
| 17 | University Fees / MSBTE (Eligibility and other) | Rs.400/- | \$ 315/- | Rs. 200/- |
| 18 | Locker charges | Rs.50/- | Rs. 50/- | Rs. 50/- |
| 19 | Alumni charges | Rs. 50/- | Rs. 50/- | Rs. 50/- |
| 20 | Vehicle parking | Rs. 50/- | Rs. 50/- | Rs. 50/- |

Rs-Indian Rupee

\$-American Dollar

29.1 MODE OF PAYMENT OF FEES

A candidate who has been offered a seat in the college or polytechnic shall confirm his or her admission by paying the fees in the form of a Demand Draft (DD)/Bankers Cheque/pay order of a Nationalized Bank in favour of the Principal, Nanded Pharmacy College or Nanded Pharmacy (Poly) as the case may be.

29.2 UNIVERSITY / MSBTE FEES

The candidate shall be required to pay the fees, insurance fees as prescribed by the University / MSBTE. from time to time.

29.3 CANCELLATION OF ADMISSION

- The candidate should have taken admission by paying necessary tuition fee and should have submitted original certificate before he/she applies for cancellation. In case candidate fails to submit any of the original documents within the permissible time limit, (i.e four working days after the date of admission) the admission shall be treated as cancelled. Refund of fees shall not be applicable to such candidates.
- If the candidate desired to cancel his or her admission for any reason whatsoever during the process of admission, he or she shall be allowed to do so and it shall be presumed that admission is cancelled at that stage.
- The candidate desirous of canceling admission shall apply for cancellation.
- The candidate canceling admission shall forfeit the candidature and no longer be considered for the admission offered by the college / polytechnic during the current year and fees shall be refunded to the candidate after deducting an amount as prescribed by the competent authority in this regards.

29.4 REFUND OF FEES

The refund / part refund / no refund of fees etc. shall be as prescribed by the Director, Directorate of Technical Education, Mumbai from time to time.

The candidates who has confirmed his or her admission as per rules no. 6.5 may cancel admission by submitting an application in duplicate, in the prescribed pro forma- O, and may request for refund off fees. The refund of fees as applicable shall be made in due course. It is made clear that such application will be considered if any only if thee admission taken is confirmed as mentioned in these rules. Refund of tuition fees shall be made after deduction as under –

| Sr. No. | Category | Period and amount of cancellation charges | | |
|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| | | Upto 10 days from the last date of reporting for CAP Round as per schedule | From 11 th days upto 30 days from the last date of reporting for CAP round as per schedule. | After 30 days from the last date of reporting for CAP round as per schedule. |
| 1 | All the candidates excluding Foreign Nationals /PIO Children of Indian Workers in Gulf Countries. | 20% of the tuition, development and other fees | 50% of the tuition, development and other fees | 100% of the tuition, development and other fees. |
| 2 | 50% refund of tuition, development and other fee against cancellation of admission taken against the seats for Foreign Nationals / PIO / Children of Indian Workers in Gulf Countries is permissible up to 30 days from the date of their admission. After 30 days from the date of their admission, candidates are not eligible for any refund of tuition fees. | | | |

Note: In case of candidates belonging to SC/ST/VJ/DT/NT-1/NT-2/NT-3 / OBC who have secured a seat, the amount of cancellation fees as specified in the Sr. No. 1 of the above table is to be levied on the candidates as cancellation charges on cancellation of admission before handing over the original certificates.

29.5 CAUTION MONEY

Caution money deposits received from the students shall be refunded after successful completion of the course or after canceling the admission. Unless there is any recovery, no deduction shall be made from the caution money deposit. However, the amount of caution money deposit shall be transferred to students aid fund in case of Un-aided colleges and Non-Govt. aided polytechnics if candidate does not apply for refund,

1. Within 3 complete account years after the student actually leaves the institution;
2. Within 3 complete account years after the date of successful completion of the course, whichever is earlier.

30. FINANCIAL HELP (Scholarships / Waivers / Concessions / Book Support)

Presently no financial support is available. However waivers, concessions to a limited extent is at the discretion of the Governing body of the college. The foreign Nationals / PIO / NRI students seeking admission may apply through the principal to the governing body. The decision of the governing body shall be final.

30.1 EDUCATION LOAN

The nationalized Banks, Scheduled Banks and other types of Banks offer education loan. The college plans to enter in to a dialogue with such Banks for providing assistance to needy students as per the rules prescribed by the financial institutions.

31. PATTERN OF EDUCATION

The MSBTE & University have prescribed yearly pattern.

32. TERM & VACATION

The academic year is of two terms, the first term and second term. Between the two terms winter vacation of two weeks duration is given. The summer vacation is of six weeks duration. The Board & University notifies the academic calendar every year.

33. TEACHING & EXAMINATION SCHEME(s)

The pattern of examination and the scheme of marking shall be as per the existing pattern of Maharashtra State Board of Technical Education, Mumbai & Swami Ramanand Teerth Marathwada University, Nanded or as the case may be.

33.1 TEACHING AND EXAMINATION SCHEME FOR D.PHARM.

The scheme prescribed by the MS BTE, Mumbai is as follows;

F Y D Pharm.

| Sr. No | Subject | Total TH Hrs. | TH Hrs./ Week | Total Prac Hrs. | Prac. Hrs./W /Batch | Theory Examination | | | Practical Examination | | |
|--------|---------------------------------------|---------------|---------------|-----------------|---------------------|--------------------|-------|-------------|-----------------------|-------|-------------|
| | | | | | | Th Hrs. | Marks | Int. Marks* | PR Hrs. | Marks | Int. Marks* |
| 01 | Pharmaceutics-I | 75 | 03 | 100 | 04 | 03 | 80 | 20 | 03 | 80 | 20 |
| 02 | Pharmaceutical Chemistry-I | 75 | 03 | 100 | 03 | 03 | 80 | 20 | 03 | 80 | 20 |
| 03 | Pharmacognosy | 75 | 03 | 75 | 03 | 03 | 80 | 20 | 03 | 80 | 20 |
| 04 | Bio-Chemistry and Clinical Pathology | 75 | 03 | 75 | 03 | 03 | 80 | 20 | 03 | 80 | 20 |
| 05 | Human Anatomy and Physiology | 75 | 03 | 50 | 02 | 03 | 80 | 20 | 03 | 80 | 20 |
| 06 | Health Education & Community Pharmacy | 50 | 02 | 00 | 00 | 03 | 80 | 20 | 00 | 00 | 00 |

S Y D Pharm

| Sr. No | Subject | Total TH Hrs. | TH Hrs./ Week | Total Prac Hrs. | Prac. Hrs./W /Batch | Theory Examination | | | Practical Examination | | |
|--------|------------------------------------|---------------|---------------|-----------------|---------------------|--------------------|-------|-------------|-----------------------|-------|-------------|
| | | | | | | Th Hrs. | Marks | Int. Marks* | PR Hrs. | Marks | Int. Marks* |
| 01 | Pharmaceutics-II | 75 | 03 | 100 | 04 | 03 | 80 | 20 | 03 | 80 | 20 |
| 02 | Pharmaceutical Chemistry-II | 100 | 04 | 75 | 03 | 03 | 80 | 20 | 03 | 80 | 20 |
| 03 | Pharmacology and Toxicology | 75 | 03 | 50 | 02 | 03 | 80 | 20 | 03 | 80 | 20 |
| 04 | Pharmaceutical Jurisprudence | 50 | 02 | 00 | 00 | 03 | 80 | 20 | 00 | 00 | 00 |
| 05 | Drug Store and Business Management | 75 | 03 | 00 | 00 | 03 | 80 | 20 | 00 | 00 | 00 |
| 06 | Hospital and Clinical Pharmacy | 75 | 03 | 50 | 02 | 03 | 80 | 20 | 03 | 80 | 20 |

* Internal Assessment

33.2 TEACHING AND EXAMINATION SCHEME FOR B.PHARM.

The scheme is as prescribed by the Swami Ramanand Teerth Marathwada University, Nanded. The theory and practical examination hours and marks allotted are as follows,

CLASS B.PHARM.IST YEAR (REVISED)

| Sr. No. | Subject | Total TH Hrs. | TH Hrs./ Week | Total Prac Hrs. | Prac. Hrs./W /Batch | Theory Examination | | | Practical Examination | | |
|---------|-------------------------------------------------------------------------|---------------|---------------|-----------------|---------------------|--------------------|--------|-------------|-----------------------|--------|------------|
| | | | | | | Th Hrs. | Mark s | Int. Mark s | PR Hrs. | Mark s | Int. Marks |
| 01 | Pharmaceutical Practice (P'Ceutical Calculations & Dispensing Pharmacy) | 50 | 02 | 75 | 03 | 03 | 80 | 20 | 04 | 80 | 20 |
| 02 | Hospital Pharmacy | 50 | 02 | -- | -- | 03 | 80 | 20 | -- | -- | -- |
| 03 | P'Ceutical Inorganic Chemistry | 50 | 02 | 75 | 03 | 03 | 80 | 20 | 04 | 80 | 20 |
| 04 | Organic Chemistry-I | 50 | 02 | 75 | 03 | 03 | 80 | 20 | 04 | 80 | 20 |
| 05 | Human Anatomy & Physiology | 75 | 03 | 75 | 03 | 03 | 80 | 20 | 04 | 80 | 20 |
| 06 | Biochemistry | 75 | 03 | 75 | 03 | 03 | 80 | 20 | 04 | 80 | 20 |
| 07 | Pharmacognosy -I | 50 | 02 | 75 | 03 | 03 | 80 | 20 | 04 | 80 | 20 |
| 08 | Entrepreneurship Skills-I (DSBM) | 50 | 02 | -- | -- | 03 | 80 | 20 | -- | -- | -- |
| | Total | 450 | 18 | 450 | 18 | | | | | | |
| **9 | Remedial MATHS OR | 50 | 02 | -- | -- | -- | -- | -- | -- | -- | -- |
| | Remedial Biology (Home Exam.) | 50 | 02 | 75 | 03 | -- | -- | -- | -- | -- | -- |

CLASS: B.PHARM.IIND YEAR (REVISED)

| Sr. No. | Subject | Total TH Hrs. | TH Hrs./ Wee k | Total Prac. Hrs. | Prac. Hrs./W /Batch | THEORY EXAMINATION | | | Practical Examination | | |
|---------|---------------------------------------------------------------|---------------|----------------|------------------|---------------------|--------------------|--------|-------------|-----------------------|--------|------------|
| | | | | | | Th Hrs. | Mark s | Int. Mark s | PR Hrs. | Mark s | Int. Marks |
| 01 | Physico-Chemical Principles in Pharmacy operations | 50 | 02 | 75 | 03 | 03 | 80 | 20 | 04 | 80 | 20 |
| 02 | Unit Operations in PHARMACEUTICAL TECHNOLOGY | 50 | 02 | -- | -- | 03 | 80 | 20 | -- | -- | -- |
| 03 | Microbiology & fermentation process | 75 | 03 | 75 | 03 | 03 | 80 | 20 | 04 | 80 | 20 |
| 04 | Organic chemistry-II | 75 | 03 | 75 | 03 | 03 | 80 | 20 | 04 | 80 | 20 |
| 05 | Techniques of Pharma Analysis-I | 50 | 02 | 75 | 03 | 03 | 80 | 20 | 04 | 80 | 20 |
| 06 | Pathophysiology | 50 | 02 | -- | -- | 03 | 80 | 20 | -- | -- | -- |
| 07 | Pharmacology -I | 50 | 02 | 75 | 03 | 03 | 80 | 20 | 04 | 80 | 20 |
| 08 | Calculus & Statistics | 50 | 02 | -- | -- | 03 | 80 | 20 | -- | -- | -- |
| 09 | Entrepreneurship Skill-II (Computer Applications) * Home Exam | -- | -- | 75 | 03 | -- | -- | -- | -- | -- | -- |
| | Total | 450 | 18 | 450 | 18 | | | | | | |

CLASS: B.PHARM.IIIRD YEAR (REVISED)

| Sr. No. | Subject | Total TH Hrs | TH Hrs./ Wee k | Total Prac. Hrs. | Prac. Hrs./W /Batch | THEORY EXAMINATION | | | Practical Examination | | |
|---------|--------------------------------------------------------|--------------|----------------|------------------|---------------------|--------------------|------|-----------|-----------------------|--------|------------|
| | | | | | | Th Hrs. | Mark | Int. Mark | PR Hrs. | Mark s | Int. Marks |
| 01 | Dosage form Design | 50 | 02 | 75 | 03 | 03 | 80 | 20 | 04 | 80 | 20 |
| 02 | Dosage form manufacture | 75 | 03 | 75 | 03 | 03 | 80 | 20 | 04 | 80 | 20 |
| 03 | Immunology & Biotechnology | 50 | 02 | -- | -- | 03 | 80 | 20 | -- | -- | -- |
| 04 | Medicinal Chemistry-I | 50 | 02 | 75 | 03 | 03 | 80 | 20 | 04 | 80 | 20 |
| 05 | Techniques in Pharmaceutical Analysis-II | 50 | 02 | 75 | 03 | 03 | 80 | 20 | 04 | 80 | 20 |
| 06 | Pharmacology-II | 75 | 03 | 75 | 03 | 03 | 80 | 20 | 04 | 80 | 20 |
| 07 | Pharmacognosy-II | 50 | 02 | 75 | 03 | 03 | 80 | 20 | 04 | 80 | 20 |
| 08 | Entrepreneurship skill -III (P'Ceutical Jurisprudence) | 50 | 02 | -- | -- | 03 | 80 | 20 | -- | -- | -- |
| | Total | 450 | 18 | 450 | 18 | | | | | | |

| Sr. No. | Subject | Total TH Hrs. | TH Hrs./Week | Total Prac. Hrs. | Prac. Hrs./W /Batch | Theory Examination | | | Practical Examination | | |
|---------|------------------------------------------------------------------|---------------|--------------|------------------|---------------------|--------------------|-------|------------|-----------------------|-------|------------|
| | | | | | | Th Hrs. | Marks | Int. Marks | PR Hrs. | Marks | Int. Marks |
| 01 | Modern Pharmaceutics & cosmeticology | 75 | 03 | 75 | 03 | 03 | 80 | 20 | 04 | 80 | 20 |
| 02 | Bio-pharmaceutics & Pharmacokinetics | 50 | 02 | 75 | 03 | 03 | 80 | 20 | 04 | 80 | 20 |
| 03 | Medicinal Chemistry-II | 50 | 02 | 75 | 03 | 03 | 80 | 20 | 04 | 80 | 20 |
| 04 | Pharmacognosy and Phytochemistry (Chemistry of Natural Products) | 50 | 02 | 75 | 03 | 03 | 80 | 20 | 04 | 80 | 20 |
| 05 | Techniques in P'Ceutical Analysis-III | 50 | 02 | 75 | 03 | 03 | 80 | 20 | 04 | 80 | 20 |
| 06 | Pharmacology-III (Clinical Pharmacy) | 50 | 02 | -- | -- | 03 | 80 | 20 | -- | -- | -- |
| 07 | Total Quality Management | 50 | 02 | -- | -- | 03 | 80 | 20 | -- | -- | -- |
| 08 | Entrepreneurship Skill IV (P'Ceutical Management) | 50 | 02 | -- | -- | 03 | 80 | 20 | -- | -- | -- |
| 09 | Research Methodology (Library Assignment) | 25 | 01 | 50 | 02 | -- | -- | -- | -- | -- | -- |
| | Total | 450 | 18 | 425 | 17 | -- | -- | -- | -- | -- | -- |

34 PASSING RULES FOR B.PHARM.

Following shall be the heads of Passing

iTheory ii. Practical

Each Theory and Practical head shall consist of a University "External" examination component of 80 marks or as the case may be and University granted college "Internal" examination component of 20 marks or as the case may be as per the scheme of examination attached.

A student who secures a minimum of 45% marks combinely in external and internal head of theory and practical shall be declared to be passed in that head of passing, for example 45/100 and 23/50 or as the case may be.

The aggregate passing shall also be 45% of the sum of total marks 540 out of 1200 or as the case may be

35. AWARD OF DIVISION / CLASS FOR B.PHARM.

The division / class shall be awarded at each year of the examination that is I,II,III & IV as follows.

| | |
|----------------------------------|----------------------------------------|
| 145% and above but less than 50% | pass |
| 250% and above but less than 60% | 2 nd class |
| 360% and above but less than 70% | 1 st class |
| 470% and above | 1 st class with distinction |

36 ATKT (ALLOWED TO KEEP TERM FOR B.PHARM.)

A.T.K.T. shall be awarded to 25% of the total heads of passing for eg. if the total heads of passing are 13 or 14 (Theory & Practical taken together) then ATKT rule shall be applicable to a candidate who has failed in four & four heads respectively. Any fraction if occurs shall be rounded up to the next higher integer.

37 IMPROVEMENT IN INTERNAL MARKS FOR D.PHARM & B.PHARM.

Improvement to internal marks shall not be considered for the supplementary examination to the main examination of a particular year, for the subjects in which a students want to improve. That means for example: If 05 internal marks are awarded in a subject the same shall be considered for the main and supplementary examination. **However improvement in internal marks shall be considered for those subjects in whom a candidate has remained fail at Board Or University examinations & appears subsequently in the next academic year's examination. Improvement to supplementary examination for D.Pharm is permitted provided two improvement examinations are conducted by the Institute before supplementary examinations. No further improvement in sessional examinations is permitted.**

38. AWARD OF DEGREE

The marks memo shall not be issued and the degree shall not be conferred upon a candidate unless he/she satisfactorily completes training in a drug-manufacturing unit for a period of not less than 4 weeks (1 month) where work related to his course of study is undertaken.

39. AWARD OF CERTIFICATE OF PASSING DIPLOMA

The MSBTE, Mumbai shall not issue the certificate of diploma unless he/she satisfactorily completes training for not less than 500 hours spread over a period not less than three months in a drug store licensed by FDA or in a State/ Local authority run hospital or PHC or dispensary or ESIS or GOI scheme where actual dispensing of prescriptions should not be less than 250 hrs. In case of a private hospital prior recognition is necessary.

40. LIBRARY ASSIGNMENT FOR B.PHARM.

The library assignment at fourth year level shall be as per the existing pattern of the university. The final year mark memo shall carry letter grades awarded by the college.

41. MEDIUM OF INSTRUCTION

The medium of instruction for degree and diploma course in pharmacy is in English language

42. PHYSICAL FITNESS

It is at the discretion of the Principal to refer any candidate to the appropriate medical authority for ascertaining the physical fitness of the candidate to undergo the requirement of the course. The report of the medical authority shall be consulted with concern authorities upon whom the Principal shall take proper decision for continuation of the course etc.

43. FACULTY

Principal

Mr. S.M.Vadvalkar MS DBM

Polytechnic:

| | | | |
|----|--------------------|---------------|----------------------------|
| 1. | Md. Anwar AR Tumbi | B. Pharm, | Lecturer (Selection Grade) |
| 2. | Mr. R A Waghmare | MS; LL.B. DEM | Lecturer (Selection Grade) |
| 3. | Mrs. A P Kulkarni | M.Pharm | Lecturer (Senior Scale) |
| 4. | Mr. V M Kalmase | M.Pharm | Lecturer (Senior Scale) |
| 5. | Mr. M L Ghainwad | B. Pharm | Lecturer |
| 6. | Mr. A K Dhadve | B. Pharm | Lecturer |

College:

Department Of Pharmaceutics

- | | | | |
|----|----------------------|-------------|------------------------|
| 1. | Mr. A.T. Sangamwar, | B.Pharm. MS | Head of the Department |
| 2. | Mr. S.B.Dhoot, | M.Pharm., | Lecturer |
| 3. | Mrs. A.S. Deshpande, | M.Pharm. | Lecturer |
| 4. | Mr. A B Jadhav | M.Pharm. | Lecturer (Temp) |

Department Of Pharmaceutical Chemistry

- | | | | |
|----|---------------------|----------------|------------------------|
| 1. | Mr. S.S. Pekamwar, | M.Pharm. | Head of the Department |
| 2. | Mr. S S Deshpande | M Pharm. | Lecturer |
| 3. | Mrs. D.V. Joshi, | B.Pharm. | Lecturer (Temp) |
| 4. | Mrs. L B Labshetwar | M.Sc (Organic) | Lecturer (Temp) |

Department Of Pharmacology

- | | | | |
|----|--------------------|----------|------------------------|
| 1. | Mr. N.B.Ghiware, | M.Pharm. | Head of the Department |
| 2. | Mr. G R Shendarkar | M Parm. | Lecturer (Temp) |

Department Of Pharmacognosy & allied subjects

- | | | | |
|----|---------------|---------|------------------------|
| 1. | Mr. N.Y.Gond, | M.Pharm | Head of the Department |
|----|---------------|---------|------------------------|

Administrative staff

- | | | | |
|----|---------------------|---------------|-----------------------|
| 1. | Mr. D.N. Sanghai, | B.Com | Office superintendent |
| 2. | Mr. K K Daswad | B.A. LL.B. | Clerk cum typist |
| 3. | Mr. B T Chavan | B.A. | Accounts clerk |
| 4. | Mr. S.R. Rakeshmare | B.Com | Office Clerk |
| 5. | Mr. M.K.Waghmare | B.A.MSCIT,CCC | Computer Operator |
| 6. | Mr. G R Narwade | B.A. B.Lib. | Assistant Librarian |
| 7. | Mr. B.S.Poshat, | B.Lib. | Assistant Librarian |
| 8. | Mr. A T Naikwade | B.Sc. | Stores keeper |

Laboratory Staff

- | | | |
|-------------------|--------|----------------------|
| 1. Mr. S P Bhosle | S.S.C. | Laboratory Assistant |
| 2. Mr. V K Chavan | S.S.C. | Laboratory Assistant |
| 3. Mr. M R Pawar | S.S.C. | Laboratory Assistant |
| 4. Mr. S S Taur | H.S.C. | Laboratory Assistant |

Technicians

- | | | |
|--------------------|----------|-----------------------|
| 1. Mr. G.D. Dhage, | D.Pharm. | Laboratory Technician |
| 2. Mr. A.H. Jain | D.Pharm. | Laboratory Technician |

Laboratory Attendants

1. Mr. D B Jadhav
2. Mr. K P Waghmare
3. Mr. V D Bhosle
4. Mr. B S Hople
5. Mr. C.T. Chavan
6. Mr. S.M.Gandras
7. Mr. S.B. Jadhav
8. Md. Gulam Yonus

Office Peons

1. Mr. G.S.Mandawad.
2. Mr. N.B.Galande

Gardner

1. Mr. S.D. Sonkhedkar

Sweepers

1. Mrs. Gware Laxmi
2. Mrs. Jamdade Vaijanta
3. Mrs. Lot Kusum

(The college / polytechnic reserves right to change, modify, alter, delete or add etc. any of the clauses mentioned here in without any prior notice.)

SYLLABUS FOR B.PHARM PROGRAM

F. Y. B. PHARM. (REVISED)

1.1 PHARMACEUTICAL PRACTICE

(50 HRS) (2 HRS / W)

OBJECTIVE:

Pharmaceutics is the most diverse of all the subject areas in Pharmacy. It encompasses many subject areas which are all associated with the steps to which a drug is subjected towards the end of its development i.e. discovery or synthesis, isolation and purification, testing for advantages, pharmacological effects and absence from serious toxicological properties etc.

Traditionally the subject encompasses formulation (physical Pharmaceutics and dosage form design), manufacture on small scale compounding and large scale (technology), the cultivation, Microbiological aspects and distribution of medicines to patients (dispensing or pharmacy Practice).

Making of preparations involve different techniques, shall train a student to be competent enough to respond to prescription. The course in Pharmaceutical practice is concerned with the provision of pharmaceutical services in a hospital department and in a pharmacy serving a local community. The course is aimed at compounding and dispensing dosage forms currently prescribed, weights and measures, units used in calculations etc.

1.2 HOSPITAL PHARMACY

(50 HRS)(2 HRS / W)

OBJECTIVE

The objective this course is to know the principle duties of hospital pharmacist in health care system. This course deals with the role of hospital pharmacist with purchase, dispensing and administration of medications. This explains the correlation ship between hospital pharmacist and Doctor including other technical staff in hospital. More emphasis is given on how hospital pharmacist is an important member in hospital and its management. It also envisages the hospital and its organisational structure.

1.3 PHARMACEUTICAL INORGANIC CHEMISTRY

(50 HRS)(2 HRS / W)

OBJECTIVE:

Inorganic chemicals have been used in Pharmacy and Medicine for many reasons ranging from therapeutic to nutritional supplements to Pharmaceutical necessities. The course is designed to study the principles of Inorganic Chemistry to Pharmaceuticals and to study those Inorganic agents used as pharmaceutical aids and necessities or as therapeutics and diagnostic agents.

1.4 ORGANIC CHEMISTRY -I

(75 HRS) (3 HRS / W)

OBJECTIVE

The area of application of Organic Chemistry is vast and includes Pharmaceuticals. The objective of the course is to review and study fundamentals of Organic Chemistry in identifying and synthesising organic compounds essentially employed as drugs and pharmaceuticals. Highlight shall be on reactions and mechanism, Stereochemistry of Organic Compounds in synthesis. The course in Organic Chemistry is to be studied in two papers (I & II) at two levels of the program (I and II) with applied study as Medicinal Chemistry also in two papers (I and II) at 3rd and Final year levels

1.5 HUMAN ANATOMY AND PHYSIOLOGY

(75 HRS) (3 HRS / W)

OBJECTIVE

The objective of course is to cope with the fundamental principles and knowledge of the structure and functions of the Human Body. This will help a students in design and fabrication of drug and delivery system for manipulation in otherwise physiological function of the body.

1.6 BIOCHEMISTRY

(75 HRS)(3 HRS / W)

OBJECTIVE

The course objective is to understand the physiological functioning of human body in chemical terms. This will help a student in better understanding a human body functioning for pharmaceutical consideration. The course provides an introduction to the principles of biochemistry at conceptual level.

1.7 PHARMACOGNOSY-I

(50 HRS)(2 HRS / W)

OBJECTIVE

Pharmacognosy is an objective study which contribute to rational relationship between chemical moieties of naturally occurring drugs and biological and therapeutic effects they generate. The objective of the course is to study with sufficient knowledge of classical botany associated with scientific study of medicinally important plants arranged on a taxonomic system including chemical tests along with newer methods of analysis. The course also envisages sufficient knowledge about cultivation, collection, and prevention of adulteration, storage and uses of important plants.

1.8 ENTREPRENEURSHIP SKILLS-I (DSBM)

(50 HRS)(2 HRS / W)

OBJECTIVE

The course is designed to impart basic techniques of management, which are often employed in running or managing a business enterprise. Students are expected to acquire requisite skills so that, entrepreneurship desire is further strengthened.

1.9 REMEDIAL BIOLOGY

(50 HRS)(2 HRS / W)

OBJECTIVE

The course is to provide eligibility for the students who did not have Biology at 10+2 level. The course envisages to study the elementary biological science which includes study of general botany, Biotechnology, evolution of human life, sex determination, structure and function of human systems which find further application is pharmaceutical science.

1.9 REMEDIAL MATHEMATICS

(50 HRS)(2 HRS / W)

The course is to provide eligibility for the students who did not have Mathematics at 10+2 level

S.Y.B. PHARM. (REVISED)

2.1 PHYSICO-CHEMICAL PRINCIPLES IN PHARMACY OPERATIONS (50 HRS) (2 HRS /W)

OBJECTIVE

This course is concerned with physical and chemical properties of materials that go into the formulation of dosage forms. Ignorance of physical and chemical properties of materials create problems in efficacy and efficiency of drug delivery systems. If design of drug delivery system is proper it also minimizes manufacturing stresses & enable smooth production. Last but not the least it aids a pharmacist to choose the right kind of material to predict the release and biologic action of drug products.

Objective of this course is to study suitability of drug and non drug (excipients) substances for effective design of different dosage forms. It aims at the knowledge of the states of matter, their properties applicable in formulations. Skills are also expected to be developed in preventing degradation of drugs so as to retain efficiency and efficacy of a drug delivery system during supply. The students are also exposed to studies of overcoming physical properties of pharmaceuticals for achieving compatibility release and stability.

2.2 UNIT OPERATIONS IN PHARMACEUTICAL TECHNOLOGY. (50 HRS) (2 HRS/ W)

OBJECTIVE

Unit Operations play an important role in the design and manufacture of dosage forms. Operations like milling, granulation, drying, evaporation, mixing, pulverising, blending etc. are often employed in the process of making of Drug Delivery Systems like tablets, capsules, ointments, jellies, Liquid orals and many other solid, semisolid, liquid dosage forms .The students of undergraduate programme in Pharmacy do laboratory work by compounding various dosage forms on small scale without involving machines. The knowledge of how dosage forms are manufactured on large scale at accelerated rate involving various unit operations is therefore significant. The students shall be exposed to the technical operations employed by pharmaceutical manufacturers to produce Drug Delivery Systems on large scale achieving reproducibility, efficacy with every unit of dosage form manufactured

2.3 MICROBIOLOGY AND FERMENTATION PROCESS (75 HRS) (3 HRS/W)

OBJECTIVE

Microbes (bacteria, viruses, fungi, protozoa etc.) live in us, on us and nearly every where around us. They have a major impact on our health and environment. They play an important role in many of the foods we eat and medicines we take. The study of microbiology aims at – i) Impact on Human Health - Though fewer than 1% of all microbes cause disease, identifying how those disease causing microbes cause and transmit disease and how they can be treated is of critical importance. ii) Balance of Nature – The majority of microbes are directly or indirectly beneficial to other organisms and humans. iii) Human Efforts – The biochemical reactions carried out by microbes have been used by humans for our own ends. Fermentation reactions are exploited in the creation of antibiotics. iv) Research Area – Large number of microbes can be used in experiment to obtain statistically reliable results at a reasonable cost. As they reproduce very quickly, they are specially useful for studies involving transfer of genetic information.

The Course aims at developing skills among students in -

- i) Biological classification, identification, controlled growth of disease causing micro organism and utility in exploring biotechnological products
- ii) Sterilization aspects employing different techniques of sterilization of microbes in environment of manufacture and supply of pharmaceuticals.
- iii) Employing microbes in fermentation processes using different techniques to produce vitamins and antibiotics – Industrial aspects.

2.4 ORGANIC CHEMISTRY-II

(75 HRS) (03 HRS/W)

OBJECTIVE

The area of application of Organic Chemistry is vast and includes Pharmaceuticals. The objective of the course is to review and study fundamentals of Organic Chemistry in identifying and synthesizing organic compounds essentially employed as drugs and pharmaceuticals. Highlight shall be on reactions and mechanism, Stereochemistry of Organic Compounds in synthesis.

The Course is aimed at furthering skills in Synthesizing organic molecules including heterocyclic class. The studies in Molecular rearrangement shall further make student to understand mechanisms of Organic reactions while Stereochemistry studies lead to Configuration, Confirmation, Stereo selectivity and Stereo specificity of molecule synthesized.

2.5 TECHNIQS OF PHARMA ANALYSIS –I

(50 HRS) (2 HRS/W)

OBJECTIVE

Analysis of Pharmaceuticals play a very important role in industry as it relies upon both qualitative and quantitative chemical analysis to ensure that the raw material used meets Pharmacopoeial specifications and also ensures a quality of finished product in terms of proportion of components. The subjects Techniques of Pharma Analysis is designed and distributed at all four level of the programme as Pharmaceutical Inorganic Chemistry & Pharma Analysis-I,II & III at second, Third and final year level. The objective of the course "Techniques of Pharma Analysis –I" is to study the various techniques employed in analysing Pharmaceuticals. The course encompasses the methods of production of analytical data, which is related to quality of the product assured. by employing non instrumental techniques.

2.6 PATHOPHYSIOLOGY

(50 HRS) (2 HRS/W)

OBJECTIVE

Pathophysiology is an integrative science that draws concepts from many basic and clinical sciences, including Anatomy, Physiology, Pathology, Biochemistry, Genetics, Pharmacology, Cell and Molecular Biology and Biophysics. Pathophysiology focuses on the mechanism of diseases. These mechanisms are dynamic process that, i) Cause disease ii) Give rise to signs and symptoms, iii) Signify the body's attempt to overcome disease.

Globally a pharmacist is a part of health care team and is therefore is a health practitioner. Understanding mechanisms of disease enables him to design and implementation of "clinical interventions" which often prove effective in treatment of disease. The general theoretical framework of the subject Pathophysiology is based upon the theories and related concepts of "adaptation" and "homeostasis". An orientation to disease as disordered physiology can enable a student to understand how and why the symptoms and signs of various conditions appear; the need to understand the mechanisms underlying the disease and its clinical manifestations, so that rational therapies can be devised.

2.7 PHARMACOLOGY –I

(50 HRS) (2 HRS/W)

OBJECTIVE

The subject pharmacology is broad one and encompasses the knowledge of the sources, physical and chemical properties, physiological actions, ADME and therapeutic uses of drugs. The subject pharmacology is a basic medical science but is also equally concerned with other subject matters and techniques of many medical disciplines including Pharmaceutical sciences. The subject needs to be studied from three view point.

1. Correlation of Pharmacology with Pharmaceutical sciences
2. Reinterpretation of the actions and uses of drugs from view point of important advances in medicines.
3. Application to therapeutics.

The course envisages identification of disease relevant targets (receptors) for drug action, select the chemicals best suited to manipulate each target, understand in detail the consequences of the drug - receptor interaction, maximise the specificity of drug interaction, minimise toxicity, optimise and vary the Pharmacokinetic profiles of drugs and prove that the drug identified is appropriate for clinical use. The students of the degree program in pharmacy are trained in a manner –

- i) To design and fabricate drug for clinical use
- ii) To render professional services on drugs and related matters to other health practitioner
- iii) To render services as counsellor to patients.

All these aspects require knowledge and understanding of the subject Pharmacology. The courses as anatomy & physiology, pathophysiology, pharmacokinetics, drug interactions at various levels of the program are the inputs in understanding the subject matter. The course in Pharmacology – I provided understanding of the basic principles that underline current therapy, Pharmacokinetics, Pharmacodynamic's, Toxicology and Therapeutics.

2.8 ELEMENTS OF CALCULUS AND BIOSTATISTICS (50 HRS) (02 HRS/ W)

2.9 ENTREPRENEURSHIP SKILLS- II (COMP. APPLICATION) (75 HRS) (3 HR/W)

OBJECTIVE:

This is an online learning course consisting of theoretical aspects coupled with practical assignments. the purpose of the course is to expose students to computer & it's application in the modern age of pharmaceuticals. There shall be no University Examination; instead the college shall train students in computer operation and software uses. The performance of students shall be evaluated periodically and shall be forwarded to the University.

Knowledge of FUNDAMENTALS & WINDOWS is essential for anyone working in the computer field. This course is designed to meet the needs of beginners who wish to communicate with computers via windows. This course gives the beginners a good understanding of windows & ms-office, which are now days the most important tools for the computer users.

The primary purpose is that a student need not spend much time on learning but utilize it for working. The students are expected to learn fundamentals, windows, Internet & utilize it during training.

After the completion of this course you will be able to:

- Interact with ms office & other operating systems.
- From pharmaceutical point of view, a student can create labels to be affixed on container, can generate various graphics.
- Generate special graphs useful in pharmaceuticals & pharmacology practical etc.
- Study human anatomical structure with the help of Ms PowerPoint.
- Create a presentation.
- Interact with people working at opposite pole of the world via Internet.

T.Y.B. PHARM. (REVISED)
3.1 DOSAGE FORM DESIGN

(50 HRS) (02 HRS / W)

OBJECTIVE:

The objective of the course is to instil skills among students for designing various dosage forms. Design of dosage form is important in achieving predictable therapeutic response to a drug included in a drug delivery system, which is subjected to large-scale manufacture. The reproducibility of a product should not differ with its quality and efficacy.

The study encompasses formulation aspects with variety of additives available in context with release of a drug from the drug delivery system.

3.2 DOSAGE FORM MANUFACTURE

(75 HRS) (3 HRS / W)

OBJECTIVE:

The course aims at the study of common manufacturing stresses observed while manufacturing of different dosage forms at large scale. These stresses have impact on stability of formulations. The course prepares a pharmacist to rectify all these stresses, to improve the production at economic and stable level. The study encompasses the different dosage forms to be formulated as state of the art at large scale in manufacturing. It includes solutions, suspensions, emulsions, tablets, capsules, parenteral products, topical preparations & packaging materials.

3.3 IMMUNOLOGY AND BIOTECHNOLOGY

(50 HRS) (2 HRS / W)

OBJECTIVE

This course aims at general principles governing the structures and functions of various molecules of the Immune system at an elementary level. Development of immunological tolerance, hypersensitivity reactions, auto immunity, tissue transplantation and rejection are emphasized.

It also aims to have practical application of organisms or their cellular components to manufacturing and service industries like pharmaceuticals.

The study encompasses general principles of immune system and biotechnology to develop newer, safe and better therapeutic products.

3.4 MEDICINAL CHEMISTRY – I

(50 HRS) (02 HRS / W)

OBJECTIVE

The study of medicinal chemistry play a very important role in understanding the mechanism of drug action at molecular level and thus helps in designing the drug molecule for disease with fewer side effects.

The subject of medicinal chemistry is design and distributed at 3rd and final level of programme as medicinal chemistry I & II. The objectives of course medicinal chemistry is to study therapeutics agents used in disorders along with their structure activity relationship and synthesis.

3.5 TECHNIQUES IN PHARMACEUTICAL ANALYSIS-II

(50 HRS) (02 HRS / W)

OBJECTIVE

Analysis of Pharmaceuticals play a very important role in industry as it relies upon both qualitative and quantitative chemical analysis to ensure that the raw material used meets Pharmacopoeial specifications and also ensures a quality of finished product in terms of proportion of components.

The objective of the course "Techniques of Pharma Analysis –II" is to study the various techniques employed in analysing Pharmaceuticals. The course encompasses the methods of production of analytical data, which is related to quality of the product assured. by employing instrumental techniques.

3.6 PHARMACOLOGY –II

(75 HRS) (03 HRS / W)

OBJECTIVE

The subject pharmacology is broad one and encompasses the knowledge of the sources, physical and chemical properties, physiological actions, ADME and therapeutic uses of drugs. The subject pharmacology is a basic medical science but is also equally concerned with other subject matters and techniques of many medical disciplines including Pharmaceutical sciences. The subject needs to be studied from three-view point.

1. Correlation of Pharmacology with Pharmaceutical sciences
2. Interpretation of the actions & uses of drugs in medicines.
3. Application to therapeutics.

The course envisages identification of disease relevant targets (receptors) for drug action, select the chemicals best suited to manipulate each target, understand in detail the consequences of the drug - receptor interaction, maximize the specificity of drug interaction, minimize toxicity, optimize and vary the Pharmacokinetic profiles of drugs and prove that the drug identified is appropriate for clinical use

3.7 PHARMACOGNOSY-II

(50 HRS) (02 HRS / W)

OBJECTIVE

The objective of the course is to study medicinally important plants scientifically along with holistic concepts of Ayurvedic preparations. The course also envisages sufficient knowledge about source, cultivation, collection, chemical nature, chemical test, adulterants and uses of important plants from different categories.

3.8 PHARMACEUTICAL JURISPRUDANCE

(50 HRS) (2 HRS/W)

OBJECTIVE:

Law governs attitude and behaviour of persons in society. Pharmaceutical legislations are legal provisions that every person engaged in the business of pharmaceuticals must be aware of the business of pharmaceuticals is controlled. The students are expected to refer to legislative provisions controlling and regulating the trade, commerce, profession and administration whichever they want to enter into.

OBJECTIVE

The course is divided into two parts: Novel drug delivery systems and cosmetic technology. The first part concentrates on the specialized aspects of Novel drug delivery techniques, capable of controlling the rate of drug delivery, sustaining the duration of therapeutic activity, targeting the delivery of drug to a tissue in an effective, reliable, reproducible and safe manner. It is to minimize the drawbacks of conventional drug delivery system, which has to be taken several times a day to maintain the drug concentration within the therapeutic window. The course aims at learning the basic concepts for developments of various novel drug delivery systems like sustained and controlled released, implants, aerosols, neosomes & liposomes, micro-encapsulation, resealed erythrocyte, etc.

The second part is dealing with basic principles in cosmetic production including physicochemical and biological properties of cosmetic products, evaluation for performance and stability, formulation, production processes and product development. Techniques and objectives in colouring, flavouring, use of surfactants and preservatives are also emphasized in order to obtain reliable cosmetic products. Cosmetic production processes, its packaging, quality control, plant layout and equipments used are also included. Allergy in various cosmetics, art of making up cosmetic are also emphasized.

LEARNING GOALS:

1. To maintain therapeutic concentration of drug in blood circulation by changing release kinetics from a dosage form.
2. To target maximum concentration of drug at specific site by altering pharmacokinetic parameters of dosage forms.
3. To minimize quantity of a drug embedded within dosage form by reducing fluctuation at therapeutic window.
4. To develop a Novel drug delivery system more efficient, reliable and cost effective.
5. To develop a cosmetic formulation.
6. To get acquainted with Industrial processes included in cosmetic formulation.

4.2 BIOPHARMACEUTICS & PHARMACOKINETICS (50 HRS) (02 HRS/W)**OBJECTIVE**

The course is aimed at unfolding fundamental concepts involved in the study of relationship between nature and intensity of biological effects observed due to simple chemical modification of drug, modified factors influencing drug availability, presence or absence of adjuvants, the type of DDS administered and the processes of manufacture. Further it also helps prospective clinical pharmacist to begin learning pharmacokinetic techniques for further applications in clinical situations.

LEARNING GOALS:

1. To strengthen fundamentals of graphing techniques and linear correlation and kinetics.
2. Concepts involved in ADME.
3. Mechanism of drug absorption and factors influencing it.
4. The term bioavailability and its determination and application, bioequivalence.
5. Compartment modeling to simulate rate processes of ADME.
6. Applications of principles of pharmacokinetics.
7. Practice problem solved.

4.3 MEDICINAL CHEMISTRY II

(50 HRS) (02HRS/W)

OBJECTIVE

“Medicinal chemistry is a branch of chemistry also involving aspects of biological, medical and pharmaceutical sciences. It is concerned with the invention, discovery, design, identification and preparation of biologically active compounds, the interpretation of their mode of interaction at the molecular level, the construction of their structure-activity relationships, and study of their metabolism.” The course in medicinal chemistry – II at final year is aimed at study of select class of therapeutic agents not covered at third year level including SAR's and synthesis.

LEARNING GOALS

For each therapeutics class described in the course, student will have knowledge of –

1. General structural features of agents belonging to the therapeutic class.
2. Relevant physico-chemical properties.
3. Relevant chemical reactions.
4. Structural and chemical influences on mechanism of action and activity.
5. Biodisposition (Metabolism) of therapeutic agents.
6. Approaches to synthesize therapeutic agents.

4.4 PHARMACOGNOSY & PHYTOCHEMISTRY

(50 HRS) (02 HRS / W)

(CHEMISTRY OF NATURAL PRODUCTS)

OBJECTIVE

“The Objective of the course is to study medicinally important plants & marine drugs scientifically along with chemistry & biosynthesis of different phytoconstituents obtained from crude drugs. The course also envisages the biotechnological techniques for obtaining and improving the quality of natural products.”

LEARNING GOALS

After completion of the course the candidate shall be able to –

1. Isolate various phytoconstituents from herbs.
2. Formulate and standardize various herbal products.
3. Use the latest techniques for search of new compounds from natural sources.
4. Know the industrial requirements for quality control of herbs.
5. Know the techniques for improving the quality of medicinal plants.

4.5 TECHNIQUES IN PHARMACEUTICAL ANALYSIS –III

(50 HRS) (02 HRS / W)

OBJECTIVE

The objective of the course is to further skills of pharmaceutical analysis by studying various principles involved in instrumental methods of chemical analysis, interpreting the data of spectroscopic analysis including atomic absorption & emission spectroscopy, X-Ray diffraction, mass spectrometry and chromatography & their applications. After completion of this course student will be able to do validation of instruments, trouble shooting in operations related to analytical instruments, interpretation of results obtained from data or spectra, designing of appropriate analytical method for newer or known drug or drug material.

LEARNING GOALS

- To understand the principle underlying techniques of instrumentation.
- To practice the operation of instrument.
- To know how interpretation of data is made.
- To know how results are analyzed.
- To know how designing of analytical method is made.
- Importance of precision and accuracy in instrumentation.
- To follow good laboratory practice.

4.6 PHARMACOLOGY-III (Clinical Pharmacy)

(50 HRS) (02 HRS / W)

OBJECTIVE

The Course is designed to incorporate areas of Clinical Pharmacology, Clinical Pharmacy, and Clinical Pharmacokinetics including therapeutic drug monitoring. The therapeutics and rational use of medicine is now a days a part of multidisciplinary process involving pharmacists, clinicians and nurses. The course is also aimed at introduction of functions necessary to discharge a set of social responsibility related to therapeutic drug use. The concept of 'Patient Oriented' in addition to 'Product Oriented' approach is envisaged.

LEARNING GOALS

1. To understand and develop rational and critical attitude to drug therapy.
2. To understand history of patient which is important in deciding dosage regime.
3. To know concept of essential drug and rational use of drug.
4. To understand individualization and optimization of drug dosing regimens.
5. To practice application of pharmacokinetic principles in clinical situation.
6. To understand significance and drug interference in diagnostic tests.
7. To seek a place in health care team as a Clinical Pharmacists.
8. To probe possibilities of clinical pharmacist as a professional.
9. To understand importance of drug information system and services.

4.7 TOTAL QUALITY MANAGEMENT

(50 HRS) (02 HRS / W)

OBJECTIVE

A course on total quality management is aimed at application of managerial tools to plan for quality, attain and control quality, follow up and improve quality, as well as organize for quality and to develop a work force.

In pharmaceutical companies (industrial) specialized departments like product development, process development, production, marketing etc. are in function. These departments are assigned a share of the responsibility of carrying out certain companywide functions, particularly here regarding the quality i.e. to make the pharmaceutical product fit for use, This quality function results in quality assurance among all stake holders, that the quality function is being effectively performed. The effectiveness of the performance of quality function is an evidence needed to establish confidence among all concerned.

LEARNING GOALS

1. To understand importance of quality and quality function.
2. To know quality systems terminology.
3. To adhere to the system rules and regulations for ensuring drugs of standard quality are made available to the community.
4. To be a part of quality function team of an organization.

4.8 ENTREPRENEURSHIP SKILLS – IV (PHARMACEUTICAL MANAGEMENT)

(50 HRS) (02 HRS / W)

OBJECTIVE

Graduates of pharmaceutical sciences often join organizations (profit making or non profit making) as managers of business. An effective manager must be proactive in responding to change and is always juggling with resources like money, time and personnel. An effective manager are responsible for translation of goals and objectives of the business into their own departments in accordance with the mission statement of organization. The success of an organization is the result of adoption of a system view and team work.

A course in pharmaceutical management is aimed at developing certain skills among undergraduate students to prepare them for sharing the stated responsibility. The study of management is vast, however in this course of study an overview of personnel management operations management, product, marketing, sales promotion and advertising management, financial and project management is expected to be studied, at introductory level. A topic on macro economics and environmental management is also included for rational approach in nation building.

LEARNING GOALS

1. To understand strategies for managing time and stress.
2. To understand strategies for supporting organization success.
3. To get acquainted with major approaches to planning and change management.
4. To sort out methods and tools for making decisions.
5. To understand approaches for determining priorities and developing budgets.

4.9 RESEARCH METHODOLOGY (CONTACT HRS 1 / W LIBRARY 2 HRS / W) (LIBRARY ASSIGNMENT)

OBJECTIVE

A course in research methodology (library assignment) is aimed at introduction of how research work is being done. The research is aimed as an organized enquiry, essentially an investigation designed and carried out to provide information for solving a problem or gaining knowledge. It also includes discovering newer information or relationship and to expand and to verify existing knowledge. Different categories of research are classified. Here, it is mainly confined to library research of technological kind involving evolution of theories, study involving cause and effect relationship and seeking out significant facts and interpretation of the past data which are found in journals reports, directories, books and using internet sources.

LEARNING GOALS

The aim of library assignment is to achieve professional development of a student in the context of the overall goal of his / her programme. This subject will be conducted in terms of actual participation in professional activities such as audience handling, data preparation, data organization, designing, laboratory equipment and machinery handling etc. This subject will also deal with communication aspects such as presenting a paper in seminar, articulating ideas and concepts to professional audience etc.

Shri Sharda Bhavan Education Society's

NANDED PHARMACY COLLEGE (POLY) / NANDED PHARMACY COLLEGE

Opp. Kasturba Matruseva Kendra, Shyam Nagar, Nanded –431 605 Ph- (02462) 251118, 254445 (O)

Fax: 264147 E-mail: nnd_ssbesnpc@sancharnet.in www.nandedpharmacycollege.org

ADMISSION NOTIFICATION (2004-2005)

D PHARM / B PHARM

Applications in the prescribed form are invited from all eligible candidates for admission to F.Y. D.Pharm. and F.Y.B.Pharm for the academic year 2004-2005.

* **Only Maharashtra Domicile candidates are considered for D.Pharm admissions.**

* **Indian Nationals (OMS) / Foreign Nationals / PIO / Children of Indian Workers in Gulf Countries are eligible for application to F Y B.Pharm admissions under 15% quota & Management seats (20% quota) & those that shall remain vacant at the end of Round 1A & 1B of CAP.**

QUALIFICATION & ELIGIBILITY:

F.Y.D.Pharm.: A candidates should have passed H.S.C. (Std. XII) examination of Maharashtra State Board of Secondary and Higher Secondary Education, Examination or equivalent in physics, chemistry & Biology or Mathematics & English.

F.Y.B.Pharm.:

1. Passed HSC (10+2) examination of MSBSHSE or equivalent securing minimum 50% marks (45% for BC) in Physics, Chemistry & the Subject of Maximum marks amongst Biology / Mathematics / Biotechnology / Computer Science added together.

2. Must be a pass in English as one of the subjects.

3. Must have a non-zero score in current years' MAH-PH-CET, AIEEE Or APC-MS-PH-CET if any (APC-MS-PH-CET – Association of Pharmacy Colleges in Maharashtra State Pharmacy Common Entrance Test)

* **Application form and information broacher – available at the college/ poly office only.**

The information broacher including application form for D.Pharm & B.Pharm are priced at Rs.200/- each.*For backward class candidates Rs 100.00 only. **Registration charges - Rs. 100** at the time of submission of application form.

*** SCHEDULE OF ADMISSION PROCESS**

All Candidates including BC for D.Pharm admissions are required to bring a DD of Rs. 10,000/- as part fees from a Nationalized Bank drawn in favour of principal, Nanded Pharmacy College (Poly). In case of B.Pharm. admissions all candidates including BC are required to bring a DD of Rs. 38,400/- as full fees from a Nationalized Bank drawn in favour of principal, Nanded Pharmacy College. Cash payments accepted between 10.00 am – 17.00 pm.

| FOR F.Y.D.PHARM. ADMISSION | | FOR F Y B.PHARM. ADMISSION | |
|--------------------------------------------------------------------|------------|-----------------------------------------------------------------------------|------------|
| ▪ Date of commencement of sale of application form: | 08.06.2004 | ▪ Date of commencement of sale of application form: | 08.06.2004 |
| ▪ Date of start of acceptance of duly completed application forms: | 08.06.2004 | ▪ Date of start of acceptance of duly completed application forms | 08.06.2004 |
| ▪ Last date of acceptance of duly completed application forms: | 21.06.2004 | ▪ Start of admission to allottees in round 1A & 1B of CAP & J&K / GOI. | 13.07.2004 |
| ▪ Date of display of provisional merit list: | 23.06.2004 | ▪ Last date for admission to allottees in round 1A & 1B of CAP & J&K / GOI. | 17.07.2004 |
| ▪ Last date for receipts of complaints about merit list: | 25.06.2004 | ▪ Last date of acceptance duly completed applications forms | 18.07.2004 |
| ▪ Date of display of final merit list: | 29.06.2004 | ▪ Display of Number of Seats available in college including 20% Mgmt seats | 19.07.2004 |
| ▪ Counseling begins on: | 01.07.2004 | ▪ Display of merit list & merit list of D Pharm holders. | 20.07.2004 |
| ▪ Display of Waiting list: | 05.07.2004 | ▪ Last date of receiving complaints against merit list displayed | 21.07.2004 |
| ▪ Date of start of F.Y. D Pharm. classes: | 12.07.2004 | ▪ Display of final merit list | 22.07.2004 |
| ▪ Completion of admission process | 02.08.2004 | ▪ Counseling begins on | 23.07.2004 |
| | | ▪ Date of start of F Y B Pharm classes | 19.07.2004 |
| | | ▪ End of admission process | 02.08.2004 |

Postal delay not accepted.

| Counseling Program D.Pharm | | | | Counseling Program B.Pharm | | | |
|----------------------------|-----------------|--------------------------------|----------------------------------------|----------------------------|-------------------------------------------|----------------------------------------------------------------|----------------------------------------|
| Round | Date | Time | Category | Round | Date | Time | Category |
| Round -I | 01.07.04 | 10.00am-13.00pm | All candidates from General merit list | Round -I | 23.07.2004 | 10.00am-15.00pm | All candidates from general merit list |
| | | 14.00am-17.00pm | All DSP & PH | | | 24.07.2004 | 10.00am-13.00pm |
| | 02.07.04 | 10.00am-13.00pm | All SC, ST | | 14.00pm-17.00pm | | All BC Inter-se merit |
| | | 14.00am-17.00pm | All VJ, NT-1,NT-2,NT-3,OBC, SBC | | 26.07.2004 | 12.00 Noon | Display of vacant seats if any |
| 03.07.04 | 10.00am-13.00pm | All BC Inter-se merit | 27.07.2004 | | 10.00am-13.00pm | WL All candidates according to general merit list including BC | |
| 20.07.04 | 10.00am-13.00pm | WL All BC candidates, DSP & PH | | | 14.00pm-17.00pm | Vacant seats now offered to D Pharm holders as per merit list | |
| | 22.07.04 | 10.00am-13.00pm | | | WL All candidates from general merit list | 28.07.2004 | 10.00am-13.00pm |

* WL - Waiting List. BC- Backward Class. Fees as per Govt.of Maharashtra Notification.

Display of merit list & other information regarding counseling, waiting list etc shall be only on the college/polytechnic notice board. In case of any difficulty / grievance, approach the principal or the admission committee whose decision shall be final).

Note: Any changes in the process of admission and in counseling program that might take place due to unavoidable circumstances shall be displayed on the notice board of the Polytechnic / College.

dt.06.06.2004

Secretary

Principal

ABBREVIATIONS AND DEFINITIONS USED IN THE BROCHURE

Definitions

- 'State Government' means the Government of Maharashtra
- 'Director' means the Director of Technical Education, Maharashtra State, Mumbai.
- 'Competent Authority' for D Pharm admissions – means the sole authority appointed by the Government to effect admissions by implementing the rules and to act as appellate authority for representations, if any.
- 'Competent Authority' for B.Pharm admissions – means the authority appointed by the Government to invite applications for MAH-PH-CET-2004 and effect Centralised Allotment Process (CAP) by implementing the admission rules and also act as an appellate authority for representations if any. All the decisions of the competent Authority in relation to CAP for admission to first year degree pharmacy course shall be final and binding on the candidates participating in CAP.
- "Representative of Competent Authority" means an officer appointed by the Competent Authority to assist the Competent Authority for the smooth conduct of MAH-PH-CET-2004 and Centralised Allotment Process (CAP).
- 'Representative of the Competent Authority' means an officer appointed to assist Competent Authority for smooth conduct of Admission Process as per the directives of the Competent Authority.
- 'College' or 'polytechnic' or 'Institution' means Pharmacy College / Pharmacy Polytechnic duly approved by the AICTE and Government of Maharashtra to impart Education in Pharmacy at degree or diploma level.
- 'Un-Aided Pharmacy College' means Pharmacy College run by private management on self-financing basis.
- 'Sanctioned Intake' means the number of seats sanctioned for the course by the Government Resolution with reference to the AICTE's approval.
- 'Management Seats' are the seats within sanctioned intake in unaided colleges which are not included in CAP and to be filled up at respective institutional level.
- 'Interse merit' means the order of merit as defined by college / polytechnic merit list OMS merit list / FN/PIO merit list etc.
- 'Candidate' means an applicant who desires to seek admission to first year of four year degree course in pharmacy in Maharashtra State or two year diploma course in pharmacy in Maharashtra.
- 'First year Pharmacy admission' means the admission to first year of four-year degree course in pharmacy or first year of two-year diploma course in pharmacy.
- Non-Resident Indian (NRI): As per Income Tax Act 1961 an individual is Non-Resident for income tax purpose, when he is "not a resident" or who is "not ordinarily resident" of India. A person is treated as "not ordinarily resident" of India when the following two conditions are satisfied.
 - I. If the person has not been resident in India in nine out of ten preceding years

OR

 - If the person has not been in India for a period of 730 days or more during the preceding seven years.
 - II. A person, who is Non-resident in India or Not Ordinarily Resident, is taxed in India only for his / her income in India. Such a person is not taxed in India for his income at abroad.
- Persons of India Origin (PIO) : Persons who are citizens of other countries (except Pakistan and Bangladesh) who at any time held an Indian Passport, or who or either of his/her parents or any of his / her grand parents was a citizen of India by virtue of the provisions of the constitution of India or Sec 2 (b) of Citizenship Act, 1955 (Act No. 57 of 1955)
- Foreign Nationals: Citizens of all countries other than India, who are not of Indian origin as defined under PIO
- Foreign student: Foreign Students in this context shall be defined as the student who possesses a foreign passport.

Abbreviations used in the brochure:

| | | |
|---------------|---|-----------------------------------------------------------------------------|
| AICTE | - | All India council for Technical Education |
| PCI | - | Pharmacy Council of India |
| MSPC | - | Maharashtra State Pharmacy Council |
| DTE | - | Directorate of Technical Education |
| UGC | - | University Grants Commission |
| AIU | - | Association of Indian Universities |
| AIEEE | - | All India Engineering Entrance Examination for Pharmacy |
| ARC | - | Application form Receipt |
| CAP | - | Centralised Allotment Process |
| MAH_PH-CET | - | Maharashtra-Pharmacy-Common Entrance Test |
| APC-MS-PH-CET | - | Association of Pharmacy Colleges in Maharashtra State- Common Entrance Test |
| GOI | - | Government of India |
| Govt. | - | Government |
| HSC | - | Higher Secondary Certificate |
| SSC | - | Secondary School Certificate |
| OMS | - | Out side Maharashtra Student |
| PIO | - | Person of Indian Origin |
| FN | - | Foreign National |
| SRTMU | - | Swami Ramanand Teerth Marathwada University |

SHRI SHARDA BHAVAN EDUCATION SOCIETY NANDED

The SSBES is an educational Public Trust as per Bombay Public Trust Act 1950 and under Society's Registration Act 1860. The Society is actively engaged since 1963 in promoting quality education in various disciplines of social sciences and technical education. The society is established and managed by a group of honorable members of different communities. The members include social workers, freedom fighters, educationist, industrialists, professionals etc.

WORKING COMMITTEE

| | | |
|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| A S Chavan | Vacant Shri Ashok Shankarrao Chavan Shri. Dattatraya Pandurangrao Savant Mr. Uday Shahajirao Nimbalkar | Chairman Vice Chairman Secretary Jt. Secretary |
| D P Savant | Shri Gangadharrao Lachmanna Shakkwar Shri Vishwanthrao Ramanappa Hurne Shri Gangadharrao Rukhmaji Gujrathi Dr. Shri Sunil Shyamraoji Kadam | Treasurer Member Member Member |
| U S Nimbalkar | Dr. Shri Bhagwat Shrirangrao Dhengle Shri. Pandurang Bhaurao Pawde Shri. Madhukarrao Bapurao Patil Khatgaonkar Shri Sangramrao Marotrao Pomde | Member Member Member Member |
| G.L.Shakkwar | Shri Kishor Yeshwantrao Patil Shri Ishwarrao Champatrao Patil Gadegaonkar Sow. Rekha Bhagwanrao Chavan Shri. Thorat S.B. Shri Mudholkar R.K. | Member Member Member Principal's Representative Headmaster's Representative |



GOVERNING BODY OF NANDED PHARMACY COLLEGE (POLY)

| | |
|----------------------------------|------------------------------------------------|
| Shri A.S.Chavan | Chairman |
| Shri U.S. Nimbalkar | Member |
| Shri G.R. Gujrathi | Member |
| Shri Ishwarrao Patil Gadegaonkar | Member |
| Vacant | Member |
| R.O.WR.C.AICTE, Mumbai. | Ex-Officio Member |
| Dr. Joshi U.Y. | Nominated AICTE Member |
| Vacant | Nominated Member MSBTE, Mumbai |
| Jt. Director, TE, | Ex-Officio Member RO, DTE, Aurangabad. |
| Vacant | Nominated Member by State Govt. of Maharashtra |
| S.M.Vadvalkar, Principal. | Member Secretary. |

Invitee

| | |
|-------------------|-----------------------------|
| Shri R.A.Waghmare | Teachers Representative |
| Shri D.B.Jadhav | Non-Teaching Representative |

GOVERNING BODY OF NANDED PHARMACY COLLEGE NANDED

| | |
|---------------------------------------------|------------------------------------------------|
| Vacant | Chairman |
| Shri A.S. Chavan | Member |
| Shri D.P.Savant | Member |
| Shri Kishor Y Patil | Member |
| Shri Madhukarrao B Patil Khatgaonkar | Member |
| Dr. S.B.Bhise, Principal, GCOP, Aurangabad. | AICTE Representative |
| R.O.W.R.C AICTE, Mumbai. | Ex- Officio member |
| Nominee, SRTM, University, Nanded | Member |
| Jt. Director, TE | Ex-Officio Member RO, DTE, Aurangabad. |
| Vacant | Nominated Member by State Govt. of Maharashtra |
| Prin. S.M.Vadvalkar, IC Principal | Member Secretary |

Invitee

| | |
|--------------------|-----------------------------|
| Mr. N.Y.Gond | Teachers Representative |
| Mr. M. K. Waghmare | Non-Teaching Representative |



Shri Sharda Bhavan Education Society's
NANDED PHARMACY COLLEGE (POLY)

Opp. Kasturba Matru Seva Kendra, Shyam Nagar, Nanded -431 605

Phone No. (02462) 251118, 254445 (O) Fax: 254445

www.nandedpharmacycollege.org

E-mail: nnd_ssbnespc@sancharnet.in

**APPLICATION FOR ADMISSION TO FY D.PHARM
Academic Session 200 -200**

Registration Receipt No. _____ Reg. Date _____ Category _____

Merit No (as per Gen. Merit list) _____ Date of Admission _____ Sig. of Accountant _____

INFORMATION OF THE APPLICANT

1) Name in Full (As per HSC certificate & in capital) Mr./ Ms _____

2) Address for correspondence _____
with phone No./ E-mail _____

3) Name of Parent/Guardian _____

4) Date of Birth _____ (In words) _____

6) Place of Birth _____ District _____ State _____

7) Nationality _____ 11) Married / Unmarried _____

8) Mention Category (SC/ST/VJ/NT1/2/3/OBC/SBC) _____

9) Whether DSP / PH _____

10) Particulars regarding school / College education

| Examination/ Course | Board/University | Yr of passing | Division | Max Marks | Marks obtained | Agg.% | Marks in Maths | Marks in English |
|------------------------|------------------|------------------|----------|-----------|-------------------|-------|-------------------|---------------------|
| SSC | | | | | | | | |
| HSC | | | | | | | | |

(Enter marks of English & maths in SSC column only for deciding relative merit in case of FY D.Pharm)

11) Marks Obtained at HSC Examination

| Subject | Physics (100) | Chemistry (100) | Biology (100) | Mathematics (100) | Group Marks (300) | Group % | English (100) |
|---------|------------------|--------------------|------------------|----------------------|----------------------|------------|------------------|
| Marks | | | | | | | |

12) Registration charges paid for D.Pharm Rs.100/- Yes / No Reg. receipt No. _____

13) Failing to secure admission in FY D.Pharm;
Would you like to consider this application
For B.Pharm program automatically? Yes / No

14) Registration charges paid for B.Pharm Rs.100/- Yes / No Reg. Receipt No. _____

15) Hostel accommodation for Girl candidate Required/Not Required

Date:-

Signature of Candidate



Shri Sharda Bhavan Education Society's
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www.nandedpharmacycollege.org

E-mail: nnd_ssbeshnpc@sancharnet.in

**APPLICATION FOR ADMISSION TO FY/SY B.PHARM
Academic Session 200 -200**

FOR OFFICE USE ONLY (Not to be filled by Applicant)

Registration Receipt No. _____ Reg. Date _____ Category _____

Merit No _____ Date of Admission _____ Sig. of Accountant _____

INFORMATION OF THE APPLICANT

1) Name in Full (As per HSC certificate & in capital) Mr./ Ms _____

2) Address for correspondence _____
with phone No./ E-mail _____

3) Name of Parent/Guardian _____

4) Date of Birth _____ (In words) _____

5) Place of Birth _____ District _____ State _____

6) Nationality _____ 11) Married / Unmarried _____

7) Mention Category (SC/ST/VJ/NT1/2/3/OBC/SBC _____

8) Whether DSP / PH _____

9) Whether FN / PIO / Children of Indian Workers in Gulf Countries _____

10) Pharmacy Entrance examination score

| ENTRANCE EXAMINATION | SCORE |
|----------------------|-------|
| AIEEE -200 | |
| MAH-PH-CET-200 | |
| APC-MS-PH-CET-200 | |

11) Particulars regarding school / College education

| Examination | Board/University | Yr of passing | Division | Max Marks | Marks obtained | Agg.% | Marks in Maths | Marks in English |
|-------------|------------------|---------------|----------|-----------|----------------|-------|----------------|------------------|
| SSC | | | | | | | | |
| HSC | | | | | | | | |
| D.Pharm | | | | | | | | |

(Enter marks of English & Maths in SSC column only for deciding relative merit in case of FY, SSC & HSC in case of direct in to SY B. Pharm)

12) Marks Obtained at HSC Examination

| Subject | Physics | Chemistry | Biology / Mathematics / Biotechnology / Computer Science* | Marks out of 300 in group subjects | % of marks obtained in group subjects | English |
|---------|---------|-----------|-----------------------------------------------------------------|------------------------------------------|---------------------------------------------|---------|
| | (100) | (100) | (100) | | | (100) |
| Marks | | | | | | |

* Strike out which is not applicable

13) Registration charges paid for B.Bharm Rs.100/-

Yes / No

Reg. receipt No. _____

14) Hostel accommodation for Girl candidate

Required/Not Required

Date:-

Signature of the Candidate

FOR F.Y.D.PHARM. ADMISSION

| | |
|--------------------------------------------------------------------|------------|
| ▪ Date of commencement of sale of application form: | 08.06.2004 |
| ▪ Date of start of acceptance of duly completed application forms: | 08.06.2004 |
| ▪ Last date of acceptance of duly completed application forms: | 21.06.2004 |
| ▪ Date of display of provisional merit list: | 23.06.2004 |
| ▪ Last date for receipts of complaints about merit list: | 25.06.2004 |
| ▪ Date of display of final merit list: | 29.06.2004 |
| ▪ Counseling begins on: | 01.07.2004 |
| ▪ Display of Waiting list: | 05.07.2004 |
| ▪ Date of start of F.Y. D Pharm. classes: | 12.07.2004 |
| ▪ Completion of admission process | 02.08.2004 |

Postal delay not accepted.

| Counseling Program D.Pharm | | | |
|-----------------------------------|----------|-----------------|-------------------------------------------|
| Round | Date | Time | Category |
| Round –I | 01.07.04 | 10.00am-13.00pm | All candidates from General merit list |
| | | 14.00am-17.00pm | All DSP & PH |
| | 02.07.04 | 10.00am-13.00pm | All SC, ST |
| | | 14.00am-17.00pm | All VJ, NT-1,NT-2,NT-3,OBC, SBC |
| | 03.07.04 | 10.00am-13.00pm | All BC Inter-se merit |
| Round - II (waiting list) | 20.07.04 | 10.00am-13.00pm | WL All BC candidates, DSP & PH |
| | 22.07.04 | 10.00am-13.00pm | WL All candidates from general merit list |

PRINCIPAL

Sr. No. 20 Correction

- Children of active service personnel who are domiciled in Maharashtra State (D1)
- Children of active service personnel (D2)
 - Who are transferred to State but are not domiciled in Maharashtra State,
 - Who are not domiciled in Maharashtra State but their families are stationed in Maharashtra State under the provision of retention of family accommodation at the last duty station on grounds of children's education.
- Children of ex-service personnel who are domiciled in Maharashtra State (D3).