1.1.1: The Institutional ensures effective curriculum planning and delivery through a well-planned and documented process including Academic calendar and conduct of continuous internal Assessment

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Gunthapally (V), Abdullapurmet (M), R.R. Dist., Near Ramoji Filmcity, Hyderabad - 501 512.





Date: 10.08.2020

CIRCULAR

This is to inform that the below mentioned staff members are appointed as Institutional Academic Committee members for the Academic year 2020-21 to discuss Institutional academic matters.

S NO	NAME OF THE FACULTY	DESIGNATION	SIGNATURE
1	Dr.K. BALAJI ,PRINCIPAL, AIPS	CHAIRPERSON	1
2	Dr. Y JAYAPRADHA, DIRECTOR-HR	MEMBER	93
3	Dr. NIHAR RANJAN DAS,VICE PRINCIPAL,AIPS IQAC COORDINATOR	MEMBER	NEY
4	Dr. M. RAMAKRISHNA PROFESSOR AND HEAD, DEPARTMENT OF PHARMACY	MEMBER	M.R.Kil
5	B. MANJULA ASSOCIATE PROFESSOR	MEMBER	layelat
6	Dr. G. SAI KIRAN	MEMBER	Gerry
7	Dr. K. NAGARAJU	MEMBER	KMA
8	M.RAJASHEKAR,PHYSICAL DIRECTOR	MEMBER	Refairekey
9	S.SRIDEVI,LIBRARIAN	MEMBER	XX

Copy to:

1.ALL HODs

2.IQAC Coordinator

PRINCIPAL

- PRINCIPAL Avanthi's Institute of Pharmaceutical Sciences Gunthapally (V), Hayath Nagar (M),

Ranga Reddy Dist.









Gunthapally (V), Abdullapurmet (M), R.R. Dist., Near Ramoji Filmcity, Hyderabad - 501 512.

INSTITUTIONAL ACADEMIC PLANNING & ADVISORY COMMITTEE

Institutional Academic Planning & Advisory Committee Members For the Academic Year 2020-2021

S NO	NAME OF THE FACULTY	DESIGNATION
1	Dr.K. BALAJI ,PRINCIPAL, AIPS	CHAIRPERSON
2	Dr. Y JAYAPRADHA, DIRECTOR-HR	MEMBER
3	Dr. NIHAR RANJAN DAS, VICE PRINCIPAL, AIPS IQAC COORDINATOR	MEMBER
4	Dr. M. RAMAKRISHNA PROFESSOR AND HEAD. DEPARTMENT OF PHARMACY	MEMBER
5	B. MANJULA ASSOCIATE PROFESSOR	MEMBER
6	Dr. G. SAI KIRAN	MEMBER
7	Dr. K. NAGARAJU	MEMBER
8	P. LAVANYA	MEMBER
9	M.RAJASHEKAR,PHYSICAL DIRECTOR	MEMBER
10	S.SRIDEVI,LIBRARIAN	MEMBER

Functions of the Academic Committee:

- 1. The academic committee is responsible for imbibing the best practices to provide an improved academic system for the present and future students.
- 2. The committee is also accountable for practices, such as conducting academic award functions to honor students for academic excellence.
- 3. Propose the academic requirements (Theory, Laboratory and Examination related) of each Department.
- 4. Scheduling of various academic activities.
- 5. Review of the academic activities.
- 6.Perform such other functions as may be assigned by the governing body

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Gunthapally (V), Abdullapurmet (M), R.R. Dist., Near Ramoji Filmcity, Hyderabad - 501 512.





AIPS/AC/2021-2022/01

Date: 19.08.2020

CIRCULAR

This is to inform all the staff members that Institutional Academic Committee will be meeting on 22.08.20**30** at 10.00 AM in the Principal's chamber to discuss the following agenda. All members are requested to attend the meeting without fail.

Agenda:

- 1. Preparation of institute academic calendar of 2020-2021
- 2. Value added courses
- 3. Hospital training sessions and visits
- 4. Pharmacological and Analytical Project works
- 5. Research works and collaboration
- Workshops/FDPs
- 7. Industrial visits
- 8. Training and Placements
- 9. Sports/NSS activities
- 10. Any other issues

PHARMACISTICS SCIENCES * ABDULLAPURMENT

PRINCIPAL

. PRINCIPAL

Avanthi's Institute of Pharmaceutical Science Gunthapally (V), Hayath Nagar (M), Ranga Reddy Dist.

Copy to:

- 1. All HODS
- 2. IQAC coordinator
- 3. All the Committee Members



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MINUTES OF THE INSTITUTIONAL ACADEMIC PLANNING & ADVISORY **COMMITTEE**

The Institutional Academic Committee meeting was held on 22.08.2020 at 10AM in Principal's chamber. The principal welcomed the staff and briefed on the above objective of the Institutional Academic Committee meeting. The principal started the deliberations by discussing the Academic issues and emphasized the need to concentrate on new University regulations.

Agenda Item 1:

Preparation of Institute academic calendar of 2020-2021

Resolution:

- Dr. Nihar Ranjan Das IQAC Coordinator, prepared the college Academic Calendar based on the Academic Calendar issues by the University and is handed over to the Head of the Department of Pharmacy.
- Department wise Academic Calendar was prepared by the Head of the Department basing on the Calendar issued by the Coordinator and was sent to the IQAC coordinator for his approval.
- Timetables were prepared and workloads were allotted to the faculty based

Academic

Calendar of the institute as per the curriculum of the current semester.

Agenda Item 2

Value added Courses

Resolution:

Dr. G. Sai Kiran, Professor, The member of the committee have been proposed that value added courses should be included in each department though it's not included in the curriculum as it finds important for the development and employability of the students.

Agenda Item 3:

Hospital training sessions and visits:

Resolution:

- PRINCIPAL

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The members suggested that every student should complete atleast one internship per year.

Agenda Item 4:

Pharmacological and Analytical Project works

Resolution:

The members of the committee assigned the faculty to guide the students in project

Agenda Item 5:

Research Works

Resolutions

- Dr. Y. Jayapradha, advised the faculty members to Publish at least one research paper per semester in High Indexed Journal. The entire remaining faculty were suggested to publish one paper in Scopus journal.
- B. Manjula advised all the faculty members to attend the FDP every year.
- Dr. K. Nagaraju, advised all the faculty members to undergo Internship Academic Interaction programmes.

Agenda Item 6:

Training and placements

Resolution:

- The Principal, AIPS staff members discussed and took a resolution and informed and the faculty members to implement the following from the academic year.
- Students who cleared all the subjects and secured CGPA above 7 should enroll for GPAT Programme.
- Students who cleared all the subjects and obtained CGPA between 6-7 should enroll for PGECET Programme.
- All the remaining students should attend CRT classes conducted by the college.
- Dr. M. Rama Krishna, informed the faculty members to organize various activities in the form of Competitions, Guest lectures, Career guidance, Entrepreneurship programmes etc for the students to improve their knowledge, skills and keep them abreast with the changing demands of the industries.

Agenda Item 7:

Workshops/FDPS

Resolution: Dr. Y. Jayapradha, suggested the faculty to attend the FDP every year.

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Ranga Reddy Dist:









- She suggested the importance of proving training programmes to non-teaching staff in Ms Office, Ms Word and Excel which are very useful in drafting and for preparing documents.
- She also advised the English faculty to train the junior faculty and nonteaching staff to compose emails, notices, official letters, circulars which are necessary for the needs of their job and also for the professional development of the institution

Agenda Item 8:

Industrial Visits

Resolution:

- Dr. K. Balaji, proposed an idea of organizing regular industrial visits for the students Inreputed industries like Pfizer, Aurabindo
- To acquire knowledge on the working of men and machinery in different pharmacy

Industries

Dr. Nihar Ranjan Das suggested for arranging at least two guest lecturers to students in a semester.

Agenda Item 9:

Sports/NSS Activities

Resolution:

- M. Rajashekar proposed organizing Sports activities for the students and encourages the students to participate in competitions at the university, state or national level Tournaments
- · He also informed the faculty members to conduct various technical events and NSS activities like Blood donation camps, Plantation drive, Swacch Bharat Campaign, Health check-up programs etc.

Agenda Item 10

Any other Issues Resolution:

Resolution

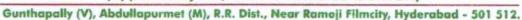
Dr. Nihar Ranjan Das, the IQAC coordinator instructed all the staff members to maintain updated stock registers, Maintenance registers, Complaint registers etc of all the laboratories duly verified by the committee.

It was also resolved after the discussion and should follow IQAC Audit Action Taken Report.

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List of Academic Planning & Adivisory Committee Members attended

Name of the faculty	Designation	Signature
Dr.K. BALAJI ,PRINCIPAL, AIPS	CHAIRPERSON	1
Dr. Y JAYAPRADHA, DIRECTOR-HR	MEMBER	B
Dr. NIHAR RANJAN DAS,VICE PRINCIPAL,AIPS IQAC COORDINATOR	MEMBER	Notes !
Dr. M. RAMAKRISHNA PROFESSOR AND HEAD. DEPARTMENT OF PHARMACY	MEMBER	MRKib
B. MANJULA ASSOCIATE PROFESSOR	MEMBER	logida
Dr. G. SAI KIRAN	MEMBER	Gre
Dr. K. NAGARAJU	MEMBER	KME
P. LAVANYA	MEMBER	
M.RAJASHEKAR,PHYSICAL DIRECTOR	MEMBER	Downky
S.SRIDEVI,LIBRARIAN	MEMBER	(1)
	Dr. K. BALAJI ,PRINCIPAL, AIPS Dr. Y JAYAPRADHA, DIRECTOR-HR Dr. NIHAR RANJAN DAS,VICE PRINCIPAL,AIPS IQAC COORDINATOR Dr. M. RAMAKRISHNA PROFESSOR AND HEAD. DEPARTMENT OF PHARMACY B. MANJULA ASSOCIATE PROFESSOR Dr. G. SAI KIRAN Dr. K. NAGARAJU P. LAVANYA M.RAJASHEKAR,PHYSICAL DIRECTOR	Dr.K. BALAJI ,PRINCIPAL, AIPS Dr. Y JAYAPRADHA, DIRECTOR-HR Dr. NIHAR RANJAN DAS,VICE PRINCIPAL,AIPS IQAC COORDINATOR Dr. M. RAMAKRISHNA PROFESSOR AND HEAD. DEPARTMENT OF PHARMACY B. MANJULA ASSOCIATE PROFESSOR Dr. G. SAI KIRAN MEMBER MEMBER

HINE OF PHARMACE INCAL SOLENCE IN A BOULLAPURNER

PRINCIPAL

- PRINCIPAL

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Date: 22.08.2020

DEPARTMENT OF PHARMACY

CIRCULAR

This is to inform that the Department Academic Committee (DAC) will be held on 26.08.2020 10:30AM at Principal Sir's chamber

Agenda:

- 1. Preparation of Department progress for the academic year 2020-2021
- 2. Value added courses related to medical coding, Clinical SAS
- 3. Certificate courses/ Internship programs on Instrumentation handling
- 4. Project works on Pharmacological activities and Analytical designs
- 5. Research works on Plant extracts and their Pharmacological action
- 6. Training and Placements with respect to Multinational Pharmaceutical Industry needs
- 7. Industrial visits to formulation Pharmaceutical Industries
- 8. Extracurricular/ Co-curricular activities
- 9. Sports/NSS activities
- 10. Any other issues

PRINCIPAL

Copy to:

- 1.All HODS
- 2. IQAC coordinator
- 3. All the Committee Members

- PRINCIPAL Avanthi's Institute of Pharmaceutical Sciences Gunthapally (V), Hayath Nagar (M), Ranga Reddy Dist.

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MINUTES OF THE INSTITUTIONAL ACADEMIC PLANNING & ADVISORY COMMITTEE

The Institutional Academic Committee meeting was held on 26.08.2020 at 10AM in Principal's chamber. The principal welcomed the staff and briefed on the above objective of the institutional Academic Committee meeting. The principal started the deliberations by discussing the Academic Issues and emphasized the need to concentrate on new University regulations.

Agenda Item 1:

Preparation of Department progress for the academic year 2020-2021

Resolution:

Dr. M. Rama Krishna, HOD Pharmacy Analysed the results of B. Pharmacy 2020-2021 academic year and expressed satisfaction for getting more than 86% of pass percentage Committee congratulated the faculty who met the target of 91% or more.

Agenda Item 2:

Value added Courses related to medical coding, Clinical SAS

Resolution:

The members of the committee have been proposed that value added courses related to medical coding, medical scribing and clinical SAS related to be included in each department though it's not included in the curriculum as it finds important for the development and employability of the B. Pharmacy

The members of the committee have been proposed that value added courses related to Quality Assurance and Quality control, Pharmaceutical technology and Pharmacological Assays should be included in each department though its not included in the curriculum as it finds important for the development and employability of the M. Pharmacy students.

Agenda Item 3:

Certificate courses/Internship programs on Instrumentation bandling

Resolution:

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 The members suggested that every B. Pharmacy students should complete certification courses/Internship courses related to latest instrumentation handling, thesis writing courses.

Agenda Item 4:

Project works on Pharmacological activities and Analytical designs

Resolution:

- The members of the committee assigned the faculty to guide the B.Pharmacy students in project works related to plant extracts and pharmacological activities, pharmaceutics related projects and analytical projects.
- The members of the committee assigned the faculty to guide the students to perform real time projects related to drug design and drug development

Agenda Item 5:

Research works on Plant Extracts and their Pharmacological

action

Resolution:

 Dr. K. Balaji, Principal adviced the faculty members to publish atleast one research Paper per semester in High Indexed Journal. The entire remaining faculty were

Suggested

to publish one paper in Scopus journal.

 Dr. K. Nagaraju Professor advised all the faculty members to attend the FDP programs every year.

Agenda Item 6:

Training and placements with respect to Multinational Pharmaceutical Industry needs

Resolution:

 The Principal, AIPS staff members discussed and took a resolution and informed and the faculty members to implement the following from the academic year:

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- Gunthapally (V), Abdullapurmet (M), R.R. Dist., Near Ramoji Filmcity, Hyderabad 501 512.
- Students who cleared all the subjects and secured CGPA above 7 should enroll for GPAT Programme Students who cleared all the subjects and obtained CGPA between 6-7 should
- All the remaining students should attend CRT classes conducted by the college.
- Dr. M. Rama Krishna, informed the faculty members to organize various activities in the form of Competitions, Guest lectures, Career guidance, Entrepreneurship programmes etc for the students to improve their knowledge, skills and keep them abreast with the changing demands of the industries.

Agenda Item 7:

Industrial Visits to formulation Pharmaceutical Industries

Resolution:

- Dr. G. Saikiran proposed an idea of organizing regular industrial visits for the students in reputed multinational Pharmacy industries like Pfizer, Aurabindo, Dr. Reddys Laboratories, DIVIS Laboratories.
- To acquire knowledge on the working of men and machinery in different pharma industries.
- P. Lavanya suggested for arranging at least two guest lecturers to students in a Semester.

Agenda Item 8:

Sports/NSS Activities

Resolution:

- M. Rajashekar proposed organizing Sports activities for the students and encourages the students to participate in competitions at the university, state or national level tournaments.
- He also informed the faculty members to conduct various technical events and NSS He
 activities like Blood donation camps. Plantation drive, Swacch Bharat Campaign, Health
 check-up programs etc.,

Agenda Item 9:

Any other Issues

Resolution:

 The IQAC coordinator instructed all the staff members to maintain updated stock registers, Maintenance registers, Complaint registers etc of all the laboratories duly verified by the committee.

 It was also resolved after the discussion and should follow IQAC Audit Action Taken Report

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List of DAC Members attended

s.no	Name of the faculty	Designation	Signature
1	Dr.K. BALAJI ,PRINCIPAL, AIPS	CHAIRPERSON	
2	Dr. Y JAYAPRADHA, DIRECTOR-HR	MEMBER	92
3	Dr. NIHAR RANJAN DAS,VICE PRINCIPAL,AIPS IQAC COORDINATOR	MEMBER	Mh
4	Dr. M. RAMAKRISHNA PROFESSOR AND HEAD. DEPARTMENT OF PHARMACY	MEMBER	MRKing
5	B. MANJULA ASSOCIATE PROFESSOR	MEMBER	lagula:13
6	Dr. G. SAI KIRAN	MEMBER	Gn
7	Dr. K. NAGARAJU	MEMBER	KMR
8	P. LAVANYA	MEMBER	
9	M.RAJASHEKAR,PHYSICAL DIRECTOR	MEMBER	Reference
10	S.SRIDEVI,LIBRARIAN	MEMBER	(A)

MRKil



Avanthi's Ins**PRINCIPAL** reutinal Sciences Gunthapaily (V), Flavain Nagar (M),

Ranga Reddy Dist.



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DEPARTMENT OF PHARMACY PRACTICE

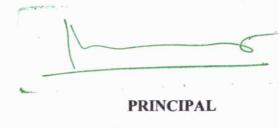
CIRCULAR

Date: 23.08.2020

This is to inform that the Department Academic Committee (DAC) will be held on 27.08.2020 10:30AM at Principal Sir's chamber.

Agenda:

- 1. Preparation of department progress for the academic year 2020-212. Hospital training and Hospital visits
- 3. Clinical Project works
- 4. Community centers correlated training
- 5. Placement in Pharma IT Sector Companies.
- 6. Value added courses
- 7. Research works
- 8 Sports/NSS activities
- 9. Any other issues



PRINCIPAL

Avanthi's Institute of the arm regulated Sciences

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Ranga Reddy Dist.

Copy to:

- 1.All HODS
- 2.IQAC coordinator
- 3. All the Committee Members

APURMET



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MINUTES OF THE INSTITUTIONAL ACADEMIC PLANNING & ADVISORY COMMITTEE

The Institutional Academic Committee meeting was held on 27.08.2020 at 10AM in Principal's chamber. The principal welcomed the staff and briefed on the above objective of the Institutional Academic Committee meeting. The principal started the deliberations by discussing the Academic issues and emphasized the need to concentrate on new University regulations.

Agenda Item 1:

Preparation of Department progress for the academic year 2020-2021

Resolution:

B.Manjula, analysed the results of Pharm.D 2020-2021 academic year and expressed satisfaction for getting more than 85% of pass percentage. Committee congratulated the faculty who met the target of 90% or more.

Agenda Item 2:

Hospital training and Hospital visits

Resolution:

- Dr. P. Swathi suggested faculty to train the students to participate in bed side learning.
- Dr. K. Leema proposed an idea of organizing regular hospital visits for the students in reputed hospitals like Global hospital, Gandhi hospital

Agenda Item 3:

Clinical Project works:

Resolution:

The members suggested that every student should complete atleast one clinical project which includes both cases and controls:

Agenda Item 4

Community centers centers correlated training

Resolution:

The members of the committee assigned the Pharmacy practice faculty to The members of the (M), committee assigned the Pharmacy practice faculty to guide the students to participate inst. community center correlated training such as B.P monitoring, Glucose monitoring

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Agenda Item 5:

Placement in Pharma - IT Sector Companies:

Resolution:

- The Principal, AIPS staff members discussed and took a resolution and informed and the faculty members to implement the following from the academic year.
- Students should attend CRT classes conducted by the college.
- Dr. Md Abdul Azeem informed the faculty members to organize various activities in the form of Competitions, Guest lectures, Career guidance, Entrepreneurship programmes etc for the students to improve their knowledge, skills and keep them abreast with the changing demands of the industries.

Agenda Item 6:

Value added courses

Resolution:

The members of the committee have been proposed that value added courses related to clini-SAP, clinical research, Pharmacovigilance should be included in each department though its not included in the curriculum as it finds important for the development and employability of the students.

Agenda Item 7:

Rearch works

Scopus journal

Resolution:

B.Manjula advised the faculty members to publish atleast one research paper per semester in High Indexed Journal. The entire remaining faculty were suggested to publish one paper in

Agenda Item 8:

Sports/NSS activities

Resolution:

 M.Rajashekar proposed organizing Sports activities for the students and encourages the students to participate in competitions at the university, state or national level tournaments.

- PRINCIPAL

Avanthi's Institute of Pha



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 MD Abdul Azeem also informed the faculty members to conduct various technical events and NSS activities like Blood donation camps, Plantation drive, Swacch Bharat Campaign, Health check-up programs etc.

Agenda Item 9:

Any other Issues

Resolution:

- Dr. Nihar Ranjan Das The IQAC coordinator instructed all the staff members to maintain updated stock registers, Maintainance registers, and Complaint registers of all the laboratories duly verified by the committee.
- It was also resolved after the discussion and should follow IQAC Audit Action Taken Report



Avanthi's Institute at Pharmal Publical Sciencus

Gunthapally (V)

Ranga Reddy Dist.



(Approved by PCI, AICTE & Affiliated to JNTUH)







List Of DAC Members attended

S.no	Name of the faculty	Designation	Signature
1	Dr.K. BALAJI ,PRINCIPAL,AIPS	CHAIR PERSON	
2	Dr.Y.JAYAPRADHA,DIRECTOR- H.R	MEMBER	B
3	Dr.NIHAR RANJAN DAS,VICE PRINCIPAL,AIPS IQAC COORDINATOR	MEMBER	Nih
4	B.MANJULA ASSOCIATE PROFESSOR	MEMBER	lagula B.
5	MD. ABDUL AZEEM, ASSOCIATE PROFESSOR	MEMBER	Asum
6	P. SWATHI PATEL, ASSISTANT PROFESSOR	MEMBER	P. Swatti Learnant
7	Dr. K. LEEMA, ASSISTANT PROFESSOR	MEMBER	Learnant
8	M.RAJASHEKAR,PHYSICAL DIRECTOR	MEMBER	Djacherog
9	S.SRIDEVI,LIBRARIAN	MEMBER	GA

HOD



PRINCIPAL

- PRINCIPAL Avanthi's Institute of Pharmaceutical Sciences Gunthapally (V), Hayath Nagar (M), Ranga Reddy Dist.

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD Academic Calendar (2020-21)

For All Constituent& Affiliated Colleges of JNTUH M.Tech. / M.Pharm. I Year - I & II Semesters

M.Tech./ M. Pharm. I Year - I Semester

S. No	Description	From	Duration To
1	Commencement of I Semester classwork / Induction Programme		16.12.2020
2	1st Spell of Instructions	16.12.2020	06.02.2021 (8 Weeks)
3	First Mid Term Examinations	08.02.2021	13.02.2021 (1 Week)
4	Submission of First Mid Term Exam Marks to the University on or before		20.02.2021
5	2 nd Spell of Instructions	15.02.2021	10.04.2021 (8 Weeks)
6	Second Mid Term Examinations	12.04.2021	17.04.2021 (1 Week)
7	Practical classes	19.04.2021	24.04.2021 (1 Week)
8	Submission of Second Mid Term Exam Marks to the University on or before		24.04.2021
9	Preparation Holidays and Practical Examinations	26.04.2021	01.05.2021 (1 Week)
10	End Semester Examinations	03.05.2021	15.05.2021 (2 Weeks)

M.Tech./ M.Pharm. I Year - II Semester

TICAL SCIE

S. No	Description	From	Duration To
1	Commencement of II Semester classwork		17.05.2021
2	1st Spell of Instructions	17.05.2021	10.07.2021 (8 Weeks)
3	First Mid Term Examinations	12.07.2021	17.07.2021 (1 Week)
4	Submission of First Mid Term Exam Marks to the University on or before		24.07.2021
5	2 nd Spell of Instructions	19.07.2021	11.09.2021 (8 Weeks)
6	Second Mid Term Examinations	13.09.2021	18.09.2021 (1 Week)
7	Preparation Holidays and Practical Examinations	20.09.2021	25.09.2021 (1 Week)
8	Submission of Second Mid Term Exam Marks to the University on or before		25.09.2021
9	End Semester Examinations	27.09.2021	09.10.2021 (2 Weeks)

Note: All the laboratory courses shall be conducted once normalcy is restored.

Sd/- xxxx Director, Academic & Planning

- PRINCIPAL

Avanthi's Institute of Pharmaceutical Sciences

Gunthapally (V), Hayath Nagar (M),

Ranga Reddy Dist.

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD Revised Academic Calendar (2020-21)

For All Constituent& Affiliated Colleges of JNTUH M.Tech. / M.Pharm. II Year - I & II Semesters

M.Tech./ M. Pharm. II Year - I Semester

S. No	Description	From	Duration To
5. 110	Description		
1	Commencement of I Semester classwork		01.09.2020
	1st Spell of Instructions (including		
2	Dussehra Recess, previous Semester End	01.09.2020	16.11.2020 (11 Weeks)
	Examinations)		
3	Dussehra Recess	19.10.2020	24.10.2020 (1 Week)
4	Preparation of Project Work Proposals	01.09.2020	28.09.2020 (4 Weeks)
5	Project Work Review-I: Project approval	20.00.2020	02 10 2020
3	(Part-I commencement)	29.09.2020	03.10.2020
	Last date for submission of list of approved		
6	PRC-I students from the College to the		06.10.2020
	University Examination branch.	1.27	
7	2 nd Spell of Instructions (including First	17 11 2020	10.01.2021 (0.W1)
/	Mid Term Exans)	17.11.2020	19.01.2021 (9 Weeks)
8	First Mid Term Examinations	14.12.2020	19.12.2020 (1 Week)
9	Submission of First Mid Term Exam Marks		28 12 2020
9	to the University on or before		28.12.2020
10	Second Mid Term Examinations	20.01.2021	25.01.2021 (1 Week)
11	Preparation Holidays	27.01.2021	30.01.2021
12	Submission of Second Mid Term Exam		20.01.2021
12	Marks to the University on or before		30.01.2021
13	End Semester Examinations	01.02.2021	13.02.2021 (2 Weeks)

M.Tech./ M.Pharm. II Year - II Semester

S. No	Description	From	Duration To
	Commencement of II Semester		
,	(Project Work Continuation)		15.00.0001
1	(5.10.2020 to 15.02.2021 - 4 Months -		15.02.2021
	Excluding Previous Semesters Examinations)		
2	Project Work Review -II (Phase-I)	15.02.2021	17.02.2021
3	** Project Work Review -II(Phase-II)	01.03.2021	03.03.2021
4	Last date for submission of PRC-II marks		06.03.2021
5	Project Work Review -III (Phase –I)	12.07.2021	17.07.2021
,	Last date for submission of Project Work		24.07.2021
6	Review-III (Phase-I) Marks		24.07.2021
7	* Date of eligibility of thesis submission		24.07.2021
	Submission of Thesis and Project Viva –		
8	Voce Examination (PRC-III Phase-I)		

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD Academic Calendar 2020-21

Pharm. D (Regular) and Pharm.D (PB) I Year

Pharm. D (Regular) and Pharm.D (PB) I Year

S. No	Description	From	Duration To
5.110			
1	Commencement of classwork / Induction		16.12.2020
	Programme		
_	1st Spell of Instructions (including		
2	Dussehra Recess, previous year End	16.12.2020	06.03.2021 (12 Weeks)
	Examinations)	ž	
3	First Mid Term Examinations	08.03.2021	13.03.2021 (1 Week)
4	Submission of First Mid Term Exam		20.02.2021
4	Marks to the University on or before		20.03.2021
5	2 nd Spell of Instructions	15.03.2021	05.06.2021 (12 Weeks)
6	Second Mid Term Examinations	07.06.2021	12.06.2021 (1 Week)
7	Submission of Second Mid Term Exam		10.06.2021
/	Marks to the University on or before		19.06.2021
8	3 rd Spell of Instructions (including	14.07.2021	04.00.2021 (12.11-1-)
8	Summer vacation)	14.06.2021	04.09.2021 (12 Weeks)
9	Third Mid Term Examinations	06.09.2021	11.09.2021 (1 Week)
10	Preparation Holidays and Practical	12.00.2021	25 00 2021 (2 W. 1)
10	Examinations	13.09.2021	25.09.2021 (2 Weeks)
1.1	Submission of Third Mid Term Exam		25 00 2021
11	Marks to the University on or before	25.09.2021	
12	End / Supplementary Examinations	27.09.2021	09.10.2021 (2 Weeks)

Note: All the laboratory courses shall be conducted once normalcy is restored.

Sd/- xxxx Director, Academic & Planning

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD Revised Academic Calendar 2020-21

Pharm. D (Regular) II, III, IV, V, VI Years and Pharm.D (PB) II, III Years

Pharm. D (Regular) II, III, IV, V Year and Pharm.D (PB) II Year

S. No	Description	From	Duration To
5.110	·		
1	Commencement of classwork		01.09.2020
2	1 st Spell of Instructions (including Dussehra Recess, previous year End Examinations)	01.09.2020	12.12.2020 (15 Weeks)
3	Dussehra Recess	19.10.2020	24.10.2020 (1 Week)
4	First Mid Term Examinations	14.12.2020	19.12.2020 (1 Week)
5	Submission of First Mid Term Exam Marks to the University on or before		28.12.2020
6	2 nd Spell of Instructions	21.12.2020	20.03.2021 (13 Weeks)
7	Second Mid Term Examinations	22.03.2021	27.03.2021 (1 Week)
8	Submission of Second Mid Term Exam Marks to the University on or before		03.04.2021
9	3 rd Spell of Instructions (including Summer vacation)	30.03.2021	28.06.2021 (13 Weeks)
10	Summer vacation	17.05.2021	29.05.2021 (2 Weeks)
11	Third Mid Term Examinations	29.06.2021	03.07.2021 (1 Week)
12	Preparation Holidays and Practical Examinations	05.07.2021	17.07.2021 (2 Weeks)
13	Submission of Third Mid Term Exam Marks to the University on or before		17.07.2021
14	End / Supplementary Examinations	19.07.2021	31.07.2021 (2 Weeks)

Pharm. D (Regular) VI Year and Pharm.D (PB) III Year

S. No	Description	From	Duration To
5. 140	Description		
1	Commencement of internship in General ward	01.09.2020 27.02.2021 (6	
2	Report submission of internship in General ward	01.03.2021	
3	Commencement of internship in Specialty ward-1	02.03.2021	01.05.2021 (2 Months)
4	Report submission of internship in Specialty ward-1	03.05.2021	
5	Commencement of internship in Specialty ward-2	04.05.2021	03.07.2021 (2 Months)
6	Report submission of internship in Specialty ward-2		05.07.2021
7	Commencement of internship in Specialty ward-3	06.07.2021	04.09.2021 (2 Months)
8	Report submission of internship in Specialty ward-3		06.09.2021
9	Final viva of internship	08.09.2021	

Note: 1 All the laboratory courses shall be conducted once normalcy is restored.

2 Regular End Examinations of previous year (including lab exams) as per the data received from the Examination branch: 12.10.2020, 27.10.2020, 31.10.2020, 04.11.2020 to 16.11.2020.

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD **ACADEMIC CALENDAR 2020-21**

For All Constituent & Affiliated Colleges of JNTUH

B. Tech./B.Pharm. I Year I & II Semesters

(Online Classes)

B. Tech./B.Pharm. I Year - I Semester

C N-	D	Duration		
S. No	Description	From	To	
1	Commencement of I Semester classwork / Orientation Programme	01.12.2020		
2	1st Spell of Instructions	01.12.2020	23.01.2021 (8 Weeks)	
3	First Mid Term Examinations	25.01.2021	30.01.2021 (1 Week)	
4	Submission of First Mid Term Exam Marks to the University on or before	06.02.2021		
5	Parent-Teacher Meeting	12.02.2021		
6	2 nd Spell of Instructions	01.02.2021 27.03.2021 (8 W		
7	Second Mid Term Examinations (including public holidays)	29.03.2021	06.04.2021 (1 Week)	
8	Preparation Holidays and Practical Examinations	07.04.2021	12.04.2021 (1 Week)	
9	Submission of Second Mid Term Exam Marks to the University on or before	12.04.2021		
10	End Semester Examinations	15.04.2021	29.04.2021 (2 Weeks)	

B. Tech./ B.Pharm. I Year - II Semester

C M	Description	Duration		
S. No	Description	From	To	
1	Commencement of II Semester classwork	30.04.2021		
2	1 st Spell of Instructions	30.04.2021	24.06.2021 (8 Weeks)	
3	First Mid Term Examinations	25.06.2021	30.06.2021 (1 Week)	
4	Submission of First Mid Term Exam Marks to the University on or before	05.07.2021		
5	Parent-Teacher Meeting	09.07.2021		
6	2 nd Spell of Instructions	01.07.2021	25.08.2021 (8 Weeks)	
7	Second Mid Term Examinations	26.08.2021	01.09.2021 (1 Week)	
8	Preparation Holidays and Practical Examinations	02.09.2021	08.09.2021 (1 Week)	
0	Submission of Second Mid Term Exam	3	08.09.2021	
9	Marks to the University on or before			
10	End Semester Examinations	09.09.2021	22.09.2021 (2 Weeks)	

Note: All the laboratory courses shall be conducted once normalcy is restored.

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Avanthi's Institute of Pharmaceutical Sciences Gunthapally (V). Hayath Nagar (M),

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD REVISED ACADEMIC CALENDAR 2020-21

For All Constituent & Affiliated Colleges of JNTUH

B. Tech./B.Pharm. II, III & IV Years I & II Semesters

B. Tech./B.Pharm. II, III & IV Years - I Semester

S. No	Description	From	Duration To	
1	Commencement of I Semester classwork		01.09.2020	
2	1st Spell of Instructions (including Dussehra Recess)	01.09.2020 31.10.2020 (9 Week		
3	Dussehra Recess•	19.10.2020	24.10.2020	
4	End Examinations preparation holidays - Previous Semesters	02.11.2020	04.11.2020 (3 days)	
5	2 nd Spell of Instructions (including First Mid Term Examinations)	14.12.2020 13.02.2021 (9 W		
6	First Mid Term Examinations	21.12.2020	28.12.2020 (1 Week)	
7	Submission of First Mid Term Exam Marks to the University on or before	04.01.2021		
8	Second Mid Term Examinations	15.02.2021	20.02.2021 (1 Week)	
9	Practical classes	22.02.2021	27.02.2021 (1 Week)	
10	Preparation Holidays and Practical Examinations	01.03.2021 06.03.2021 (1 Wed		
11	Submission of Second Mid Term Exam Marks to the University on or before	27.02.2021		
12	End Semester Examinations	08.03.2021	20.03.2021 (2 Weeks)	

B. Tech./ B.Pharm. II, III & IV Years - II Semester

S. No	•Description	From	Duration To	
5.110				
1	Commencement of II Semester classwork	22.03.2021		
2	1st Spell of Instructions	22.03.2021	15.05.2021 (8 Weeks)	
3	Summer Vacation	17.05.2021 29.05.2021 (2 Week		
4	First Mid Term Examinations	31.05.2021 05.06.2021 (1 We		
5	Submission of First Mid Term Exam Marks to the University on or before	11.06.2021		
6	2 nd Spell of Instructions	07.06.2021	31.07.2021 (8 Weeks)	
7	Second Mid Term Examinations	02.08.2021	07.08.2021 (1 Week)	
8	Preparation Holidays and Practical Examinations	09.08.2021 14.08.2021 (1 Week)		
9	Submission of Second Mid Term Exam Marks to the University on or before	14.08.2021		
10	End Semester Examinations	16.08.2021	28.08.2021 (2 Weeks)	

Note: 1 All the laboratory courses shall be conducted once normalcy is restored.

2 Regular End Semester Examinations of previous Semester (including lab exams) as per the data received from the Examination branch: 05.11.2020 to 11.12.2020.

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(Approved by PCI, AICTE & Affiliated to JNTUH)





INSTITUTIONAL ACADEMIC CALENDER

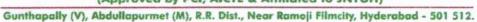
ACADEMIC YEAR 2020-2021

S.NO	DATE	NAME OF THE EVENT
AUG	22.08.2020	INSTITUTIONAL ACADEMIC COMMITTEE MEETING
	26.08.2020	DEPARTMENT OF PHARMACY ACADEMIC COMMITTEE
		MEETING
	27.08.2020	DEPARTMENT OF PHARMACY PRACTICE ACADEMIC
		COMMITTEE MEETING
SEPT	01.09.2020	COMMENCEMENT OF CLASSWORK OF PHARM-D 2 ND , 3 RD , 4 TH , 5 TH & 6 TH YEARS
		COMMENCEMENT OF CLASSWORK OF B. PHARM I
		SEMESTER CLASSWORK 2 ND , 3 RD & 4 TH YEARS
	01.09.2020	COMMENCEMENT OF I SEMESTER CLASSWORK OF M.
		PHARM 2 ND YEAR
	01.09.2020-	COMMENCEMENT OF INTERNSHIP IN GENERAL WARD
	27.02.2021	OF PHARM-D 3 RD & 4 TH YEARS
	01.09.2020-	1 ST SPELL OF INSTRUCTIONS (INCLUDING DUSSEHRA
	31.10.2020	RECESSS) OF B. PHARM I SEMESTER 2 ND ,3 RD & 4 TH
		YEARS
	01.09.2020-	1ST SPELL OF INSTRUCCTIONS (INCLUDING DUSSEHRA
	12.12.2020	RECESS, PREVIOUS YEAR END EXAMINATIONS) OF
		PHARM-D 2 ND , 3 RD , 4 TH , 5 TH & 6 TH YEARS
	01.09.2020-	1 ST SPELL OF INSTRUCTIONS (INCLUDING DUSSEHRA
	16.11.2020	RECESS, PREVIOUS SEMESTER END EXAMINATIONS)
		OF M. PHARM 2 ND YEAR
	01.09.2020-	PREPARATION OF PROJECT WORK OF I SEMESTER OF
	28.09.2020	M. PHARM 2 ND YEAR
	02.09.2020	AWARENESS PROGRAMME ON HIGHER EDUCATION
	03.09.2020	NATIONAL NUTRITION DAY
	05.09.2020	TEACHER'S DAY
	25.09.2020	WORLD PHARMACIST DAY
	29.09.2020-	PROJECT WORK REVIEW-I: PROJECT APPROVAL (PART-
	03.10.2020	I COMMENCEMENT) OF I SEMESTER OF M. PHARM 2 ND
		YEAR
OCT	02.10.2020	MATHATMA GANDHI JAYANTHI
	17.10.2020	BATHUKAMMA
	19.10.2020	ACADEMIC COMMITTE MEETING
	19.10.2020-	DUSSSEHRA RECESS
	24.10.2020	and some property of the control of
	24.10.2020	DURGASTAMI
	30.10.2020	EID MILADUN NABI
NOV	02.11.2020-	END EXAMINATIONS PREPARATION HOLIDAYS
negotiette vi	04.11.2020	PREVIOUS SEMESTERS OF B PHARM I SEMESTER 2 ND 3 RD & 4 TH YEARS

Avanthi Institute of Pharmaceutical Sciences
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	14.11.2020	CHILDREN'S DAY
	17.11.2020-	2 ND SPELL OF INSTRUCTIONS (INCLUDING FIRST MID
	19.01.2021	TERM EXAMINATIONS) OF I SEMESTER OF M. PHARM 2 ND YEAR
	18.11.2020-	NATIONAL PHARMACY WEEK
	25.11.2020	
	22.11.2020	TREE PLLANTATION SWATCH BHARAT
	23.11.2020	GENDER SENSITIZATION PROGRAMME
	30.11.2020	KARTHIKA PURNIMA
DEC	01.12.2020	COMMENCEMENT OF B. PHARM I SEMESTER CLASSWORK/ORIENTATION PROGRAMME OF 1 ST YEAR WORLD EARTH DAY
	01.12.2020-	1 ST SPELL OF INSTRUCTIONS OF I SEMESTER OF B.
	23.01.2021	PHARM 1 ST YEAR
	08.12.2020	TELENGANA HARITHAHARAM
	10.12.2020	AWARENESS ON WEB COUNSELLING
	14.12.2020-	FIRST MID TERM EXAMINATIONS OF PHARM-D 2 ND ,3 ^{RI}
	19.12.2020	,4 TH ,5 TH & 6 TH YEARS
	14.12.2020-	FIRST MID TERM EXAMINATIONS OF I SEMESTER OF
	19.12.2020	M. PHARM 2 ND YEAR
	14.12.2020-	FIRST MID TERM EXAMINATIONS OF B. PHARM I
	13.02.2020	SEMESTER 2 ND , 3 RD & 4 TH YEARS
	15.12.2020	AWARENESS OF COVID SAFETY MEASURES
	16.12.2020	COMMENCEMENT OF CLASSWORK/INDUCTION
		PROGRAMME OF PHARM-D 1 ST YEAR
	16.12.2020	COMMENCEMENT OF I SEMESTER
		CLASSWORK/INDUCTION PROGRAMME OF M. PHARM 1 ST YEAR
	16.12.2020-	1 ST SPELL OF INSTRUCTONS (INCLUDING DUSSEHRA
	06.03.2021	RECESS, PREVIOUS YEAR END EXAMINATIONS) OF PHARM-D 1 ST YEAR
	16.12.2020-	1 ST SPELL OF INSTRUCTIONS OF I SEMESTER OF M.
	06.02.2021	PHARM 1 ST YEAR
	18.12.2020	WOMEN'S RIGHTS
	20.12.2020-	ANNUAL DAY CELEBRATIONS
	30.12.2020	- NID
	21.12.2020-	2 ND SPELL OF INSTRUCTIONS OF PHARM-D 2 ND ,3 RD ,4 TH
	20.03.2021	,5 TH & 6 TH YEARS
	22.03.2021-	SECOND MID TERM EXAMINATIONS OF PHARM-D 2 ND
	27.03.2021	,3 RD ,4 TH ,5 TH & 6 TH YEARS
	25.12.2020	CHRISTMAS
ANT	26.12.2020	BOXING DAY
AN	01.01.2021	NEW YEARS DAY
	06.01.2021	AWARENESS PROGRAMME ON DRUG MENACE
	07.01.2021	PONGAL CELEBRATIONS AND SWATCH BHARATH PROGRAM
-11-015-2	12.01.2021	NATIONAL YOUTHDAY
		Avanthi's Institute of Pharmac Gunthapally (V). Havath

- PRINCIPAL 'Avanthi's Institute of Pharmaceutical Sciences Gunthapally (V). Havath Nagar (M),









ANKRANTI ECOND MID TERM EXAMINATIONS OF I SEMESTER OF I. PHARM 2 ND YEAR ETI BACHAO BETI PADHAO AVE GIRL CHILD EPUBLIC DAY REPARATION HOLIDAYS OF I SEMESTER OF M. HARM 2 ND YEAR AND I SEMESTER EXAMINATIONS OF M. PHARM 2 ND EAR RST MID TERM EXAMINATIONS OF I SEMESTER OF B. PHARM 1 ST YEAR CADEMIC COMMITTE MEETING OF PHARM-D II EMESTER OF 1 ST YEAR ECOND MID TERM EXAMINATIONS OF B. PHARM I EMESTER OF 1 ST YEAR COND MID TERM EXAMINATIONS OF B. PHARM I EMESTER 2 ND , 3 RD & 4 TH YEARS DIP SPELL OF INSTRUCTIONS OF I SEMESTER OF 1 ST EAR DIMMENCEMENT OF II SEMESTER (PROJECT WORK DISTINUATION) OF M. PHARM 2 ND YEAR ROJECCT WORK REVIEW-II (PHASE-I) OF II SEMESTER F. M. PHARM 2 ND YEAR RENT TEACHER MEETING OF I SEMESTER OF B. HARM 1 ST YEAR RACTICAL CLASSES OF B. PHARM I SEMESTER 2 ND RACTICAL CLASSES OF B. PHARM I SEMESTER 2 ND
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ND I SEMESTER EXAMINATIONS OF M. PHARM 2 ND EAR RST MID TERM EXAMINATIONS OF I SEMESTER OF PHARM 1 ST YEAR CADEMIC COMMITTE MEETING OF PHARM-D II EMESTER OF 1 ST YEAR ECOND MID TERM EXAMINATIONS OF B. PHARM I EMESTER 2 ND ,3 RD & 4 TH YEARS ED SPELL OF INSTRUCTIONS OF I SEMESTER OF 1 ST EAR EMENT OF II SEMESTER (PROJECT WORK DNTINUATON) OF M. PHARM 2 ND YEAR ROJECCT WORK REVIEW-II (PHASE-I) OF II SEMESTER F M. PHARM 2 ND YEAR ARENT TEACHER MEETING OF I SEMESTER OF B. HARM 1 ST YEAR
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CADEMIC COMMITTE MEETING OF PHARM-D II EMESTER OF 1 ST YEAR ECOND MID TERM EXAMINATIONS OF B. PHARM I EMESTER 2 ND ,3 RD & 4 TH YEARS ED SPELL OF INSTRUCTIONS OF I SEMESTER OF 1 ST EAR EAR EMENT OF II SEMESTER (PROJECT WORK ENTINUATON) OF M. PHARM 2 ND YEAR EXOJECCT WORK REVIEW-II (PHASE-I) OF II SEMESTER F M. PHARM 2 ND YEAR EARENT TEACHER MEETING OF I SEMESTER OF B. HARM 1 ST YEAR
CADEMIC COMMITTE MEETING OF PHARM-D II EMESTER OF 1 ST YEAR ECOND MID TERM EXAMINATIONS OF B. PHARM I EMESTER 2 ND ,3 RD & 4 TH YEARS ID SPELL OF INSTRUCTIONS OF I SEMESTER OF 1 ST EAR DIMMENCEMENT OF II SEMESTER (PROJECT WORK DISTRUCTIONS OF M. PHARM 2 ND YEAR ROJECCT WORK REVIEW-II (PHASE-I) OF II SEMESTER F M. PHARM 2 ND YEAR ARENT TEACHER MEETING OF I SEMESTER OF B. HARM 1 ST YEAR
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F M. PHARM 2 ND YEAR ARENT TEACHER MEETING OF I SEMESTER OF B. HARM 1 ST YEAR
ARENT TEACHER MEETING OF I SEMESTER OF B. HARM 1 ST YEAR
HARM 1 ST YEAR
RACTICAL CLASSES OF B. PHARM I SEMESTER 2 ND
RD & 4 TH YEARS
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EPORT SUBMISSION OF INTERNSHIP IN GENERAL
ARAD OF PHARM-D 3 RD & 4 TH YEARS
ROJECT WORK REVIEW OF II SEMESTER OF M. PHARM
D YEAR
REPARATION HOLIDAYS AND PRACTICAL
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ARD-1 OF PHARM-D 3 RD & 4 TH YEARS
TERNATIONAL WOMENS DAY
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ND I SEMESTER EXAMINATIONS OF B. PHARM I
MESTER 2 ND ,3 RD & 4 TH YEARS
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	15.03.2021- 05.06.2021	2 ND SPELL OF INSTRUCTIONS OF PHARM-D 1 ST YEAR
	22.03.2021	COMMENCEMENT OF II SEMESTER CLASSWORK OF B. PHARM 2 ND ,3 RD & 4 TH YEARS
	22.03.2021-	1 ST SPELL OF INSTRUCCTIONS OF II SEMESTER OF B.
	15.05.2021	PHARM 2 ND , 3 RD & 4 TH YEARS
	25.03.2021	BIOADHYAYAN 2021
	29.03.2021	HOLI
	29.03.2021-	SECOND MID TERM EXAMIINATIONS OF I SEMESTER
	06.04.2021	OF B. PHARM 1 ST YEAR
	30.03.2021-	3 RD SPELL OF INSTRUCTIONS (INCLUDING SUMMER
	28.06.2021	VACTIONS) OF PHARM-D 2 ND ,3 RD ,4 TH ,5 TH & 6 TH YEARS
APRIL	02.04.2021	GOOD FRIDAY
	05.04.2021	BABU JAGJIVAN RAM'S BIRTHDAY
	07.04.2021	WORLD HEALTH DAY
	07.04.2021-	PREPARATION HOLIDAYS AND PRACTICAL
	12.04.2021	EXAMINATIONS OF B. PHARM I SEMESTER OF 1ST
		YEAR
	09.04.2021	TRADITONAL DAY
	12.04.2021-	SECOND MID TERM EXAMINATION OF I SEMESTER OF
	17.04.2021	M. PHARM 1 ST YEAR
	13.04.2021	UGADI
	14.04.2021	Dr. AMBEDKAR'S BIRTHDAY
	15.04.2021	GOOD FRIDAY
	15.04.2021-	END I SEMESTER EXAMINATIONS OF B. PHARM 1 ST
	29.04.2021	YEAR
	19.04.2021-	PRACTICAL CLASSES OF I SEMESTER OF M. PHARM 1 ST
	24.04.2021	YEAR
	20.04.2021	WORLD EARTH DAY
	21.04.2021	SRI RAMA NAVAMI
	26.04.2021-	PREPARATION HOLIDAYS AND PRACTICAL
	01.05.2021	EXAMINATIONS OF I SEMESTER OF M. PHARM 1 ST YEAR
	30.04.2021	COMMENCEMENT OF II SEMESTER CLASSWORK OF B. PHARM 1 ST YEAR
	30.04.2021-	1 ST SPELL OF INSTRUCTIONS OF II SEMESTER OF B.
	24.06.2021	PHARM 2 ND ,3 RD &4 TH YEARS
MAY	03.05.2021	REPORT SUBMISSION OF INTERNSHIP IN SPECIALTY
		WARD-1 OF PHARM-D 3 RD & 4 TH YEARS
	03.05.2021-	END I SEMESTER EXAMINATIONS OF M. PHARM 1 ^{S1}
	15.05.2021	YEAR
	04.05.2021-	COMMENCEMENT OF INTERNSHIP IN SPECIALTY
	03.07.2021	WARD-2 OF PHARM-D 3 RD & 4 TH YEARS
	14.05.2021	RAMZAN
	17.05.2021-	SUMMER VACTIONS OF II SEMESTER OF B. PHARM 2 ND ,3 RD & 4 TH YEARS
	29.05.2021	
	17.05.2021-	1 ^{S1} SPELL OF INSTRUCTIONS OF II SEMESTER OF M.
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Avanthi's Institute of Pharmaceutical Sciences Gunthapally (V), Hayath Nagar (M). Ranga Reddy Dist









10000000	DIVIDIA ISLAMAD
	PHARM 1 ST YEAR
17.05.2021	COMMENCEMENT OF II SEMESTER CLASSWORK OF M.
20.05.2021	PHARM 1 ST YEAR
	BLOOD DONATION CAMP
	WORLD NUTRITION DAY
	FIRST MID TERM EXAMINATIONS OF B. PHARM II
	SEMESTER OF 2 ND ,3 RD & 4 TH YEARS
	SECOND MID TERM EXAMINATIONS OF PHARM-D 1 ^{S1}
	YEAR
Control of the second s	2 ND SPELL OF INSTRUCTIONS OF B. PHARM II
	SEMESTER OF 2 ND ,3 RD & 4 TH YEARS
	3 RD SPELL OF INSTRUCTIONS (INCLUDING SUMMER
	VACTIONS) OF PHARM-D 1 ST YEAR
	FIRST MID TERM EXAMINATIONS OF B. PHARM II
	SEMESTER OF 1 ST YEAR
	3 RD MID TERM EXAMINATIONS OF PHARM-D 2 ND ,3 RD
	,4 TH ,5 TH & 6 TH YEARS
	2 ND SPELL OF INSTRUCTIONS OF II SEMESTER OF 1 ^{S1}
	YEAR
The second secon	PREPARATION EXAMS AND PRACTICAL
17.07.2021	EXAMINATIONS OF PHARM-D 2 ND ,3 RD ,4 TH ,5 TH & 6 TH
	YEARS
05.07.2021	REPORT SUBMISSION OF ITERNSHIP IN SPECIALITY
	WARD-2 OF PHARM-D 3 RD & 6 TH YEARS
	COMMENCEMENT OF INTERNSHIP IN SPECIALITY
	WARD-3 OF PHARM-D 3 RD & 6 TH YEARS
09.07.2021	PARENT- TEACHER MEETING OF II SEMESTER OF B.
	PHARM 1 ST YEAR
1	FIRST MID TERM EXAMINATIONS OF II SEMESTER OF
	M. PHARM 1 ST YEAR
	PROJECT WORK REVIEW-III (PHASE-I) OF II SEMESTER
	OF M. PHARM 2 ND YEAR
	END/SUPPLEMENTARY EXAMINATIONS OF PHARM-D
	2 ND ,3 RD ,4 TH ,5 TH & 6 TH YEARS
	2 ND SPELL OF INSTRUCTIONS OF II SEMESTER OF M.
11.09.2021	PHARM 1 ST YEAR
24.07.2021	DATE OF ELIGBILITY OF THESIS SUBMISSION OF M.
	PHARM II SEMESTER OF 2 ND YEAR
02.08.2021-	SECOND MID TERM EXAMINATIONS OF B. PHARM II
07.08.2021	SEMESTER OF 2 ND ,3 RD & 4 TH YEARS
09.08.2021-	PREPARATION HOLIDAYS AND PRACTICAL
14.08.2021	EXAMINATIONS OF B. PHARM II SEMESTER OF 2 ND
	,3 RD & 4 TH YEARS
15.08.2021	INDEPENDENCE DAY
16 00 2021	END II SEMESTER EXAMINATIONS OF B. PHARM 2 ND
16.08.2021-	
28.08.2021	,3 RD & 4 TH YEARS SECOND MID TERM EXAMINATIONS OF B. PHARM II
	24.07.2021 02.08.2021- 07.08.2021 09.08.2021- 14.08.2021

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	01.09.2021	SEMESTER OF 1 ST YEAR
SEPT	02.09.2021-	PREPARATION HOLIDAYS AND PRACTICAL
	08.09.2021	EXAMINATIONS OF B. PHARM II SEMESTER OF 1ST
		YEAR
	06.09.2021-	THIRD MID TERM EXAMINATIONS OF PHARM-D 1ST
	11.09.2021	YEAR
	06.09.2021	REPORT SUBMISSION AND INTERNSHIP IN SPECALITY
		WARD-3 OF PHARM-D 3 RD & 6 TH YEARS
	08.09.2021	FINAL VIVA OF INTERNSHIP OF PHARM-D 3 RD & 6 TH
		YEARS
	09.09.2021-	END II SEMESTER EXAMINATIONS OF B. PHARM 1ST
	22.09.2021	YEAR
	13.09.2021-	PREPARATIION HOLIDAYS AND PRACTICAL
	25.09.2021	EXAMINATIONS OF PHARM-D 1 ST YEAR
	13.09.2021-	SECCOND MID TERM EXAMINATIONS OF II SEMESTER
	18.09.2021	OF M. PHARM 1 ST YEAR
	20.09.2021-	PREPARATION HOLIDAYS AND PRACTICAL
	25.09.2021	EXAMINATIONS OF M. PHARM II SEMESTER OF 1ST
		YEAR
	27.09.2021-	END/SUPPLEMENTARY EXAMINATIONS OF PHARM-D
	09.10.2021	1 ST YEAR
	27.09.2021-	END II SEMESTER EXAMINATIONS OF M. PHARM 1 ST
	09.10.2021	YEAR

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DEPARTMENT OF PHARMACY PRACTICE ACADEMIC CALENDER 2020-2021

PHARM.D I YEAR - V YEAR

DESCRIPTION	I YEAR	II YEAR	III YEAR	IV YEAR	V YEAR
COMMENCEMENT OF CLASSWORK	16.12.2020	01.09.2020	01.09.2020	01.09.2020	01.09.202
I SPELL OF INSTRUCTION	16.12.2020	01.09.2020	01.09.2020	01.09.2020	01.09.202
I MID OF EXAMINATION	08.03.2021	14.12.2020	14.12.2020	14.12.2020	14.12.202
II SPELL OF INSTRUCTION	15.03.2021	21.12.2020	21.12.2020	21.12.2020	21.12.202
II MID OF EXAMINATION	07.06.2021	22.03.2021	22.03.2021	22.03.2021	22.03.202
III SPELL OF INSTRUCTION	14.06.2021	30.03.2021	30.03.2021	30.03.2021	30.03.202
III MID OF EXAMINATION	06.09.2021	29.06.2021	29.06.2021	29.06.2021	29.06.202
PREPARATION AND PRACTICALS	13.09.2021	05.07.2021	05.07.2021	05.07.2021	05.07.202
END EXAMINATIONS	27.09.2021	19.07.2021	19.07.2021	19.07.2021	19.07.202

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PHARM D VI YEAR

DESCRIPTION	VI YEAR
COMMENCEMENT OF INTERNSHIP IN GENERAL WARD	01.09.2020
REPORT SUBMISSION OF INTERNSHIP IN GENERAL WARD	01.03.2021
COMMMENCEMENT OF INTERNSHIP IN SPECIALITY WARD-1	02.03.2021
REPORT SUBMISSION OF INTERNSHIP IN SPECIALITY WARD -1	03.05.2021
COMMENCEMENT OF INTERNSHIP IN SPECIALITY WARD-2	04.05.2021
REPORT SUBMISSION OF INTERNSHIP IN SPECIALITY WARD -2	05.07.2021
COMMENCEMENT OF INTERNSHIP IN SPECIALITY WARD-3	06.07.2021
REPORT SUBMISSION OF INTERNSHIP IN SPECIALITY WARD -3	06.09.2021
FINAL VIVA OF INTERNSHIP	08.09.2021
	COMMENCEMENT OF INTERNSHIP IN GENERAL WARD COMMENCEMENT OF INTERNSHIP IN SPECIALITY WARD-1 REPORT SUBMISSION OF INTERNSHIP IN SPECIALITY WARD -1 COMMENCEMENT OF INTERNSHIP IN SPECIALITY WARD-2 REPORT SUBMISSION OF INTERNSHIP IN SPECIALITY WARD -2 COMMENCEMENT OF INTERNSHIP IN SPECIALITY WARD-3 REPORT SUBMISSION OF INTERNSHIP IN SPECIALITY WARD-3

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DEPARTMENT OF PHARMACY

ACADEMIC CALENDER 2020-2021

EVENT	I YEAR	
EVENT	SEM-I	SEM-II
COMMENCEMENT OF CLASSWORK	16.12.2020	17.05.2021
I SPELL OF INSTRUCTION	16.12.2020	17.05.2021
I MID OF EXAMINATION	08.02.2021	12.07.2021
II SPELL OF INSTRUCTION	15.02.2021	19.07.2021
II MID OF EXAMINATION	12.04.2021	13.09.2021
PREPARATION AND PRACTICALS	26.04.2021	20.09.2021
END EXAMINATIONS	30.05.2021	27.09.2021

M PHARM I & II YEAR

II YEAR
М
01.09.2020
01.09.2020
29.09.2020
06.10.2020
14.12.2020
17.11.2020
20.01.2021
27.01.2021
01.02.2021

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DESCRIPTION	II YEAR
II SEM	
COMMMENCEMENT OF II SEMESTER	15.02.2021
PROJECT WORK REVIEW-II(PHASE-I)	15.02.2021
PROJECT WORK REVIEW-II (PHASE-II)	01.03.2021
LAST DATE FOR SUBMISSION OF PRC-II	06.03.2021
PROJECT WORK REVIEW-III (PHASE-I)	12.07.2021
LAST DATE FOR SUBMISSION OF PROJECT WORK REVIEW-III	24.07.2021
DATE OPF ELIGIBITY OF THESIS SUBMISSION	24.07.2021
SUBMISSION OF THESIS AND PROJECT VIVA VOCE EXAMINATION	-
PROJECT WORK REVIEW-III (PHASE-II)	-
LAST DATE FOR SUBMISSION OF PROJECT WORK REVIEW-III (PHASE-II)	-
SUBMISSION OF THESISAND PROJECT VIVA VOCE EXAMINATION (PHASE-II)	-

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ACADEMIC CALENDER 2020-2021

B.PHARMACY

EVENT	I YEAR		ΠY	EAR	III Y	EAR	IV Y	EAR
EVENT	SEM I	SEM II						
COMMENCEM ENT OF CLASSWORK	01.12.2 020	30.04.20	01.09.20	22.03.20	01.09.20	22.03.20	01.09.20	22.03.20
I SPELL OF INSTRUCTION	01.12.2 020	30.04.20	01.09.20	22.03.20	01.09.20	22.03.20	01.09.20	22.03.20
I MID OF EXAMINATIO N	25.01.2 021	25.06.20 21	21.12.20 20	31.05.20	21.12.20 20	31.05.20	21.12.20 20	31.05.20 21
II SPELL OF INSTRUCTION	01.02.2 021	01.07.20	14.12.20	07.06.20 21	14.12.20 20	07.06.20 21	14.12.20 20	07.06.20 21
II MID OF EXAMINATIO N	29.03.2 021	26.08.20	15.02.20 21	02.08.20	15.02.20 21	02.08.20	15.02.20 21	02.08.20
PREPARATIO N AND PRACTICALS	07.04.2 021	02.09.20	01.03.20 21	09.08.20	01.03.20 21	09.08.20 21	01.03.20	09.08.20 21
END EXAMINATIO NS	15.04.2 021	09.09.20 21	08.03.20 21	16.08.20 21	08.03.20 21	16.08.20 21	08.03.20 21	16.08.20 21

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DEPARTMENT OF PHARMACY PRACTICE

A.Y 2020-21 TIME TABLE

PHARM.D VI YEAR W.E.F: 01.09.2020 COLLEGE TIMINGS:9:30AM-3:50PM

DAY	9.30AM- 10.20AM	10.20AM- 11.10AM	11.10AM- 12.00PM	12.00AM- 12.50PM	12.50P M- 1.20P M	1.20P.M- 2.10PM	2.10PM- 3.00PM	3.00PM- 3.50PM
MON	CARDIOLOGY	NEPHROLOGY	NEUROLOGY	UROLOGY	L	CRITICAL CARE	PULMONORY	CASE PRESENTATION
TUE	PULMONORY	CRITICAL CARE	UROLOGY	NEPHROLOGY	U	NEUROLOGY	CARDIOLOGY	CASE PRESENTATION
WED	CRITICAL CARE	PULMONORY	NEPHROLOGY	CARDIOLOGY	N	UROLOGY	NEUROLOGY	CASE PRESENTATION
THU	UROLOGY	NEUROLOGY	PULMONORY	CRITICAL CARE	с	NEPHROLOGY	CARDIOLOGY	CASE PRESENTATION
FRI	NEUROLOGY	CRITICAL CARE	UROLOGY	PULMONORY	н	CARDIOLOGY	NEPHROLOG Y	CASE PRESENTATION
SAT	CARDIOLOG Y	NEPHROLOGY	CRITICAL CARE	UROLOGY		PULMONORY	NEUROLOGY	CASE PRESENTATION

Assistant Professor/ Assistant Professor usha Assistant Professor/ Assistant Professor/ Professor
Assistant Professor/ Assistant
Associate Professor
Assistant Professor/ Assistant Professor
Assistant Professor/ Assistant Professor

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A.Y 2020-21 TIME TABLE

PHARM.D V YEAR W.E.F: 01.09.2020 COLLEGE TIMINGS:9:30AM-3:50PM

DAY	9.30AM- 10.20AM	10.20AM- 11.10AM	11.10AM- 12.00PM	12.00AM- 12.50PM	12.50PM- 1.20PM	1.20P.M- 2.10PM	2.10PM- 3.00PM	3.00PM- 3.50PM
MON	CR	P&PE	CPK&PDM	TEST	L	P&PE	SEMINAR	CR
TUE	CR		SEMINAR		U	CPK&PDM	P&PE	TEST
WED	HOSPITALVISIT			N	HOSPITALVISIT			
THU	CPK&PDM	CR	P&PE	CLERKSHIP	С	HOSPITALVISIT		
FRI		HOSPITALVISIT			Н		HOSPITALVIS	SIT
SAT	HOSPITALVISIT					HOSPITALVIS	SIT	

SUBJECTNAME	FACULTYNAME	DESIGNATION
Clinical Research	Dr.P. SWATHI	Assistant Professor
Pharmaco Epidemiology and Pharmaco Economics	Dr. EVANGILEEN	Assistant Professor
Clinical pharmacokinetics & Pharmacotherapeutic drug Monitoring	Dr. Raviprakash	Assistant Professor
Clerkship*	Dr RAVINAYAK	Assistant Professor
Project work(six months)	Dr. Raviprakash /Dr. EVANGILEEN/P.SWATHI	Assistant Professor/
		Assistant Professor/
		Assistant Professor

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A.Y 2020-21 TIME TABLE

PHARM.D IV YEAR

W.E.F: 01.09.2020

COLLEGE TIMINGS:9:30AM-3:50PM

BAY	9.30AM- 10.20AM	10.20AM- 11.10AM	11.10AM- 12.00PM	12.00AM- 12.50PM	12.50PM- 1.20PM	1.20P.M- 2.10PM	2.10PM- 3.00PM	3,00PM- 3,50PM
MON	CT	B&RM	P.THER-III	HP	L	BPK (T)	TEST	СР
TUE	BPK	P.THER-III (T)	СР	TEST	U	B&RM	HP(T)	СТ
WED	P.THER- III		SEMINAR		N	HOSPITALVISIT(P.THER-III) LIBRARY/SPORTS		
THU	P.THER- III	HP	HP	СР	С			
FRI	CP(T)	I	HOSPITALVISI	Г	Н	HOSPITALVISIT		
SAT	B&RM		BPK			BPK TEST CT		

SUBJECTNAME	FACULTYNAME	DESIGNATION
Pharmacotherapeutics-III	Dr. Raviprakash	Assistant Professor
Hospital pharmacy	Dr. Ravinayak	Assistant Professor
Clinical pharmacy	Dr. Abdul Azeem	Associate Professor
Biostatistics and Research methodology	Dr. Ayesha/k.Vimala	Assistant Professor
Biopharmaceutics and pharmacokinetics	U. Rishika	Assistant Professor
Clinical toxicology	Dr. P. Swathi	Assistant Professor
Pharmacotherapeutics-III Lab	Dr. Raviprakash	Assistant Professor
Hospital pharmacy Lab	Dr. Ravinayak	Assistant Professor
Clinical pharmacy Lab	Dr.MD. Abdul Azeem	Associate Professor
Biopharmaceutics and pharmacokinetics Lab	I. Swathi	\Assistant Professor





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A.Y 2020-21 TIME TABLE

PHARM.D III YEAR

W.E.F: 01.09.2020 COLLEGE TIMINGS:9:30AM-3:50PM

P.A	P.F LAB	P. THERII LAB			(T)	P.COL-II	P.A
	P.F			С	P.THERII LAB(HOSPITALVISIT)		
_			P.F LAB P. THERII L	P.F LAB P.THERII P.A P. THERII LAB	P.F LAB P.THERII N P.A P. THERII LAB C	P.F LAB P.THERII N M.C (T) P.A P. THERII LAB C	P.F LAB P.THERII P.THERII N M.C (T) P.THER. -II P.COL-II P.A P. THERII LAB

SUBJECTNAME	FACULTYNAME	DESIGNATION
Pharmacology-II	Dr. Ayesha	Assistant Professor
Pharmaceutical Analysis	Dr. Raviprakash	Assistant Professor
Pharmacotherapeutics-II	Dr. K. Anusha	Assistant Professor
Pharmaceutical Jurisprudence	Dr. Ravinayak	Assistant Professor
Medicinal Chemistry	U. Rishika	Assistant Professor
Pharmaceutical Formulations	P. Srilatha S. Sandhya rani	Assistant Professor/
		Assistant Professor
Pharmacology-II	Dr. Ayesha	Assistant Professor
Pharmaceutical Analysis-Lab	Dr. Raviprakash	Assistant Professor
Pharmacotherapeutics-II-Lab	Dr. K. Anusha	Assistant Professor
Medicinal Chemistry-Lab	U. Rishika	Assistant Professor
Pharmaceutical Formulations-Lab	P. Srilatha /S. Sandhya rani	Assistant Professor Assistant Professor

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A.Y 2020-21 TIME TABLE

PHARM.D II YEAR

W.E.F: 01.09.2020 COLLEGE TIMINGS:9:30AM3:50PM

DAYS	9.30AM- 10.20AM	10.20AM- 11.10AM	11.10AM- 12.00PM	12.00AM- 12.50PM	12.5PM- 1.20PM	1.20P.M- 2.10PM	2.10P M- 3.00P M	3.00PM - 3.50PM
MON	P.COL-I	СР	P.PHY.	P.THERI	L	LIBRARY/SI	PORTS	
TUE	P.THERI	MICRO	P.PHY	LIBRARY	U	SEMINARS		СР
WED	P.PHY.	MICRO	P.COL-I	MICRO	N		MICRO	
THU	P.COL-I	LIBRARY	P.COG&PHYTO	P.COG& PHYTO	С	P.CO	G&РНҮТО.	
FRI	СР	P.PHY	P.THER-I(T)	P.COL-I(T)	н		SEMINARS	
SAT	MICRO (BS)	P.THERI	P.THERILAB(HOS	SPITALVISIT)		P.THERII	LAB (HOSPI	TAL VISIT)

Subject Name	Faculty Name	Designation
Pathophysiology	Dr. Raviprakash	Assistant Professor
Pharmaceutical Microbiology	Dr. Ravinayak	Assistant Professor
Pharmacognosy & Phytopharmaceuticals	S.Sandhya rani	Assistant Professor
Pharmacology-I	Dr. Ayeshakhan	Assistant Professor
Community Pharmacy	Dr. P. Swathi	Assistant Professor
Pharmacotherapeutics-I	Dr. K. Anusha	Assistant Professor
PharmaceuticalMicrobiology – Lab	Dr. Ravinayak	Assistant Professor
Pharmacognosy & Phytopharmaceuticals- ab	S.Sandhya rani	Assistant Professor
harmacotherapeutics-I-Lab	Dr. K. Anusha	Assistant Professor

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A.Y 2020-21 TIME TABLE

PHARM.D I YEAR

W.E.F: 16.12.2020

COLLEGE TIMINGS:9:30AM 3:50PM

DAYS	9.30AM- 10.20AM	10.20AM- 11.10AM	11.10AM- 12.00PM	12.00AM- 12.50PM	12.50PM- 1.20PM	1.20P.M- 2.10PM	2.10PM- 3.00PM	3.00PM- 3.50PM
MON	B.CHEM.	HAP	POC	P.CEU (T)	L		PIC	
TUE	PIC	RM	POC (T)	TEST	U	LIBR	ARY/SPORT	s
WED	НАР	POC	B.CHEM.	PIC (T)	N		POC	
THU	POC	RM/RB	P. CEU	PIC	С		HAP	
FRI	B.CHEM.	RM/RB	P. CEU	B. CHEM.	Н		B.CHEM.	
SAT	НАР	RM/RB	TEST	HAP (T)			P.CEU.	

Subject name	Faculty name	Designation
Human Anatomy And Physiology	Dr. P. Swathi	Assistant Professor
Pharmaceutics	I. Swathi /S. Sandhya rani	Assistant Professor
Medicinal Biochemistry	Dr. MD. Abdul Azeem	Associate Professor
Pharmaceutical Organic Chemistry	U. Rishika	Assistant Professor
Pharmaceutical Inorganic Chemistry	Dr. Ayesha	Assistant Professor
Remedial Mathematics/ Biology	K. Vimala	Assistant Professor
Human Anatomy And Physiology Lab	Dr. P. Swathi	Assistant Professor
Pharmaceutics Lab	I. Swathi /S. Sandhya rani	
Medicinal Biochemistry Lab	Dr. MD. Abdul Azeem	Associate Professor
Pharmaceutical Organic Chemistry Lab	U. Rishika	Assistant Professor
Pharmaceutical Inorganic-Chemistry-Lab	Dr. Ayesha	Assistant Professor

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AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES









PHARM D WORK LOAD 2020-21

S.No	Name of the faculty	Subjects	Class	No of periods	Total Workload	signature
1	MD.ABDUL AZEEM	M.BIO	I YR	7	14	
		CP	IV YR	7	Workload	
		HAP	I YR	7		
2	Dr. P. SWATHI PATEL	CP	II YR	3	17	
-	D1.1, 0,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	CT	IV YR	3		
		CR	V YR	4		
		HP	IV YR	6		
3	Dr. RAVI NAYAK	PJ	III YR	2	16	
3	DI. KAVINATAK	P.MICRO	II YR	7		
		CLERKSHIP	V YR	1	17 16 18 21 21 21 20	
	D- FMMANUTEI	P.THER-II	III YR	7		
4	Dr. EMMANUEL EVANGILEEN	P.THER-I	II YR	7	18	
		EPIDEMOLOGY	V YR	4		
		PATHO	II YR	4		
5	Dr. RAVIPRAKASH	P.THRER-III	IV YR	7	21	
,	DI. KAVII KAKASII	CP&PTDM	V YR	3	21	
H		PA	III YR	7		
		POC	I YR	7		
6	U. RISHIKA	MC	III YR	7	14 17 16 18 21 16 20	
		BPPK	IV YR	7		
		P.COL-I	II YR	7		
~	D. AVECHA VIIAN	PIC	I YR	6	16	
7	Dr. AYESHA KHAN	BSRM	IV YR	3	10	
		P.CEUT	I YR	6		
8	I. SWATHI	PF	III YR	6	20	
		P.CEU	II-II(A,B) B.PHARM	8		
		PF	III YR	6		
9	S. SANDHYA RANI	P.COG&PHYTO	II YR	7	19	
		P.CEUT	I YR	6		

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INSTITUTE OF PHARMACEUTICAL SCIENCES

(Approved by PCI, AICTE & Affiliated to JNTUH)







Gunthapally (V), Abdullapurmet (M), R.R. Dist., Near Ramoji Filmcity, Hyderabad - 501 512.

S.No	Name of the faculty	Subjects	Class	No of periods	Total Workload	signature
10	Dr. P.SRILATHA	PF	III YR	6	19	
	DI. I SKILATITA	P.COG&PHYTO	II YR	7	17	
		P.CEU	I YR	6		



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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

(Established by Act No. 30 of 2008)

Kukatpally, Hyderabad, Telangana (India).

ACADEMIC REGULATIONS OF B.PHARM. (REGULAR/FULL TIME) STUDENTS WITH EFFECT FROM THE ACADEMIC YEAR 2017-18 (R-17)

Under-Graduate Degree Programme in Pharmacy 1.0

JNTUH offers a 4-year (8 semesters) Bachelor of Pharmacy (B.Pharm.) degree 1.1 programme, under Choice Based Credit System (CBCS) at its affiliated colleges with effect from the academic year 2017-18.

2.0 Eligibility for admission

- 2.1 Admission to the under graduate programme shall be made either on the basis of the merit rank obtained by the qualified candidate in entrance test conducted by the Telangana State Government (EAMCET) or the University or on the basis of any other order of merit approved by the University, subject to reservations as prescribed by the government from time to time.
- 2.2 The medium of instructions for the entire under graduate programme in Pharmacy will be English only.

3.0 **B.Pharm.** Programme structure

3.1 A student after securing admission shall pursue the under graduate programme in B.Pharm. in a minimum period of four academic years (8 semesters), and a maximum period of eight academic years (16 semesters) starting from the date of commencement of first year first semester, failing which student shall forfeit seat in B.Pharm course.

A student shall register for all subjects for covering 196 credits and each student shall secure 196 credits (with CGPA ≥ 5) required for the completion of the under graduate programme and award of the B.Pharm. degree.

3.2 UGC/ AICTE specified definitions/ descriptions are adopted appropriately for various terms and abbreviations used in these academic regulations/ norms, which are listed below.

3.2.1 Semester scheme

Each under graduate programme is of 4 academic years (8 semesters) with the academic year being divided into two semesters of 22 weeks (≥ 90 instructional days) each, each semester shall have - 'Continuous Internal Evaluation (CIE)' and 'Semester End Examination (SEE)'. Choice Based Credit System (CBCS) and Credit Based Semester

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System (CBSS) as indicated by UGC and curriculum / course structure as suggested by AICTE are followed.

3.2.2 Credit courses

All subjects/ courses are to be registered by the student in a semester to earn credits which shall be assigned to each subject/ course in an L: T: P: C (lecture periods: tutorial periods: practical periods: credits) structure based on the following general pattern.

- One credit for one hour/ week/ semester for theory/ lecture (L) courses.
- One credit for two hours/ week/ semester for laboratory/ practical (P) courses or tutorials (T).

Courses like environmental science, human values and professional ethics, gender sensitization lab and other student activities like NCC/NSO and NSS are identified as mandatory courses. These courses will not carry any credits.

3.2.3 Subject Course Classification

All subjects/ courses offered for the under graduate programme in Pharmacy (B.Pharm. degree programmes) are broadly classified as follows. The university has followed almost all the guidelines issued by AICTE/UGC.

S. No.	Broad Course Classification	Course Group/ Category	Course Description
1		BS – Basic Sciences	Includes mathematics, physics and chemistry subjects.
2	Foundation Courses (FnC)	PS - Pharmaceutical Sciences	Includes fundamental Pharmacy Subjects.
3		HS – Humanities and Social sciences	Includes subjects related to humanities, social sciences and management.
4	Core Courses (CoC)	PC – Professional Core	Includes core subjects related to the parent discipline.
5	Elective Courses (E&C)	OE – Open Electives	Includes elective subjects related to inter- disciplinary areas of Pharmacy or other than Pharmacy
6	6 6	Project Work	B.Pharm. project or UG project or UG major project
7	Core Courses	Seminar	Seminar/ Colloquium based on core contents related to parent discipline.
10	Minor courses	-	1 or 2 Credit courses (subset of HS)
11	Mandatory Courses (MC)	-	Mandatory courses (non-credit)



4.0 Course registration

- 4.1 A 'faculty advisor or counselor' shall be assigned to a group of 15 students, who will advise student about the under graduate programme, its course structure and curriculum, choice/option for subjects/ courses, based on their competence, progress, pre-requisites and interest.
- 4.2 The academic section of the college invites 'registration forms' from students before the beginning of the semester through 'on-line registration', ensuring 'date and time stamping'.

 The on-line registration requests for any 'current semester' shall be completed before the commencement of semester end examinations of the 'preceding semester'.
- 4.3 A student can apply for **on-line** registration, **only after** obtaining the 'written approval' from faculty advisor/counselor, which should be submitted to the college academic section through the Head of the Department. A copy of it shall be retained with Head of the Department, faculty advisor/ counselor and the student.
- 4.4 If the student submits ambiguous choices or multiple options or erroneous entries during on-line registration for the subject(s) / course(s) under a given/ specified course group/ category as listed in the course structure, only the first mentioned subject/ course in that category will be taken into consideration.
- Subject/ course options exercised through on-line registration are final and cannot be changed or inter-changed; further, alternate choices also will not be considered. However, if the subject/ course that has already been listed for registration by the Head of the Department in a semester could not be offered due to any unforeseen or unexpected reasons, then the student shall be allowed to have alternate choice either for a new subject (subject to offering of such a subject), or for another existing subject (subject to availability of seats). Such alternate arrangements will be made by the Head of the Department, with due notification and time-framed schedule, within the first week after the commencement of class-work for that semester.
- 4.6 Open Electives: Students have to choose one open elective (OE-I) in II year II semester, one (OE-II) in III year I semester, and one (OE-III) in III year II semester and one (OE-IV) in IV year II semester from the list of Open Electives.

5.0 Subjects/ courses to be offered

- 5.1 A typical section (or class) strength for each semester shall be 60.
- A subject/ course may be offered to the students, **only if** a minimum of 20 students (1/3 of the section strength) opt for it. The maximum strength of a section is limited to 80 (60 + 1/3 of the section strength).
- 5.3 If more entries for registration of a subject come into picture, then the Head of Department concerned shall decide, whether or not to offer such a subject/ course for **two (or multiple)** sections.



6.0 Attendance requirements:

- 6.1 Attendance in all classes (Lectures/Laboratories/Project Work) is compulsory. The minimum required attendance in aggregate of all the subjects/ courses including the attendance of mid-term examination / Laboratory etc. is 75%. Two periods of attendance for each theory subject shall be considered, if the student appears for the mid-term examination of that subject. A student shall not be permitted to appear for the Semester End Examinations (SEE), if his attendance is less than 75% (excluding attendance in mandatory courses environmental science, human values and professional ethics, gender sensitization Lab, NCC/NSO, NSS and Industrial Training) for that semester.
- 6.2 Condoning of shortage of attendance (between 65% and 75%) up to a maximum of 10% (considering the days of attendance in sports, games, NCC, NSS activities and Medical grounds) in each semester shall be granted by the College Academic Committee on genuine and valid grounds, based on the student's representation with supporting evidence.
- 6.3 A stipulated fee shall be payable towards condoning of shortage of attendance.
- 6.4 Shortage of attendance below 65% in aggregate shall in **no case be condoned**.
- 6.5 Students whose shortage of attendance is not condoned in any semester are not eligible to take their end examinations of that semester. They get detained and their registration for that semester shall stand cancelled. They will not be promoted to the next semester. They may seek re-registration for all those subjects registered in that semester in which student was detained, by seeking re-admission into that semester as and when offered; in case if there are any open electives, the same may also be re-registered if offered. However, if those electives are not offered in later semesters, then alternate electives may be chosen from the same set of elective subjects offered under that category.
- 6.6 A student fulfilling the attendance requirement in the present semester shall not be eligible for readmission into the same class.

7.0 Academic requirements

The following academic requirements have to be satisfied, in addition to the attendance requirements mentioned in item no.6.

7.1 A student shall be deemed to have satisfied the academic requirements and earned the credits allotted to each subject/ course, if student secures not less than 35% marks (26 out of 75 marks) in the semester end examination, and a minimum of 40% of marks in the sum total of the CIE (Continuous Internal Evaluation) and SEE (Semester End Examination) taken together; in terms of letter grades, this implies securing 'C' grade or above in that subject/ course.

7.2 Promotion Rules

S. No.	Promotion	Conditions to be fulfilled
1	First year first semester to first	Regular course of study of first year
	year second semester	first semester.



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2	First year second semester to	(i) Regular course of study of first year
	second year first semester	second semester.
	*	(ii) Must have secured at least 24 credits
		out of 48 credits i.e., 50% of credits up
		to first year second semester from all
		the relevant regular and supplementary
		examinations, whether the student takes
		those examinations or not.
3.	Second year first semester to	Regular course of study of second year
	second year second semester	first semester.
4	Second year second semester	(i) Regular course of study of second
	to third year first semester	year second semester.
	84	(ii) Must have secured at least 58 credits
		out of 96 credits i.e., 60% of credits up
		to second year second semester from all
		the relevant regular and supplementary
		examinations, whether the student takes
		those examinations or not.
5	Third year first semester to	Regular course of study of third year
	third year second semester	first semester.
6	Third year second semester to	(i) Regular course of study of third year
	fourth year first semester	second semester.
		(ii) Must have secured at least 86 credits
		out of 144 credits i.e., 60% of credits up
		to third year second semester from all
		the relevant regular and supplementary
		examinations, whether the student takes
		those examinations or not.
7	Fourth year first semester to	Regular course of study of fourth year
	fourth year second semester	first semester.

- 7.3 A student shall register for all subjects covering 196 credits as specified and listed in the course structure, fulfills all the attendance and academic requirements for 196 credits, 'earn all 196 credits' by securing SGPA ≥ 5.0 (in each semester) and CGPA (at the end of each successive semester) ≥ 5.0 to successfully complete the under graduate programme.
- 7.4 After securing the necessary 196 credits as specified for the successful completion of the entire under graduate programme, the student can avail exemption of two subjects up to 6 credits, that is, two open elective subjects for optional drop out from these 196 credits earned; resulting in 190 credits for under graduate programme performance evaluation, i.e., the performance of the student in these 190 credits shall alone be taken into account for the calculation of 'the final CGPA (at the end of under graduate programme, which takes the SGPA of the IV year II semester into account), and shall be indicated in the

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- grade card of IV year II semester. However, the performance of student in the earlier individual semesters, with the corresponding SGPA and CGPA for which grade cards have already been given will not be altered.
- 7.5 If a student registers for some more 'extra subjects' other than those listed subjects totaling to 196 credits as specified in the course structure, the performances in those 'extra subjects' (although evaluated and graded using the same procedure as that of the required 196 credits) will not be taken into account while calculating the SGPA and CGPA. For such 'extra subjects' registered, % of marks and letter grade alone will be indicated in the grade card as a performance measure, subject to completion of the attendance and academic requirements as stated in regulations 6 and 7.1 7.4 above.
- 7.6 A student eligible to appear in the end semester examination for any subject/ course, but absent from it or failed (thereby failing to secure 'C' grade or above) may reappear for that subject/ course in the supplementary examination as and when conducted. In such cases, CIE assessed earlier for that subject/ course will be carried over, and added to the marks to be obtained in the SEE supplementary examination for evaluating performance in that subject.
- 7.7 A student detained in a semester due to shortage of attendance, may be re-admitted when the same semester is offered in the next academic year for fulfillment of academic requirements. The academic regulations under which student has been readmitted shall be applicable. However, no grade allotments or SGPA/ CGPA calculations will be done for the entire semester in which student has been detained.
- 7.8 A student detained due to lack of credits, shall be promoted to the next academic year only after acquiring the required academic credits. The academic regulations under which student has been readmitted shall be applicable to him.
- Note: (1) The SGPA will be computed and printed on the marks memo only if the candidate passes in all the subjects offered and gets minimum B grade in all the subjects.
 - (2) CGPA is calculated only when the candidate passes in all the subjects offered in all the semesters.
- 8.0 Evaluation Distribution and Weightage of marks
- 8.1 The performance of a student in every subject/course (including practicals and UG major project) will be evaluated for 100 marks each, with 25 marks allotted for CIE (Continuous Internal Evaluation) and 75 marks for SEE (Semester End-Examination).
- 8.2 For theory subjects, during a semester, there shall be two mid-term examinations. Each mid-term examination consists of one objective paper, one descriptive paper and one assignment. The objective paper and the essay paper shall be for 10 marks each with a total duration of 1 hour 20 minutes (20 minutes for objective and 60 minutes for essay paper). The objective paper is set with 20 bits of multiple choice, fill-in the blanks and matching type of questions for a total of 10 marks. The essay paper shall contain 4 full

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questions out of which, the student has to answer 2 questions, each carrying 5 marks. While the first mid-term examination shall be conducted on 50% of the syllabus, the second mid-term examination shall be conducted on the remaining 50% of the syllabus. Five marks are allocated for assignments (as specified by the subject teacher concerned). The first assignment should be submitted before the conduct of the first mid-examination, and the second assignment should be submitted before the conduct of the second mid-examination. The total marks secured by the student in each mid-term examination are evaluated for 25 marks, and the average of the two mid-term examinations shall be taken as the final marks secured by each student in internals/sessionals. If any student is absent from any subject of a mid-term examination, an on-line test will be conducted for him by the university. The details of the question paper pattern are as follows,

- The end semester examinations will be conducted for 75 marks consisting of two parts viz. i) **Part-A** for 25 marks, ii) **Part-B** for 50 marks.
- Part-A is compulsory question which consists of ten sub-questions. The first five sub-questions are from each unit and carry 2 marks each. The next five subquestions are one from each unit and carry 3 marks each.
- Part-B consists of five questions (numbered from 2 to 6) carrying 10 marks each.
 Each of these questions is from one unit and may contain sub-questions. For each
 question there will be an "either" "or" choice, which means that there will be two
 questions from each unit and the student should answer either of the two
 questions.
- 8.3 For practical subjects there shall be a continuous internal evaluation during the semester for 25 sessional marks and 75 semester end examination marks. Out of the 25 marks for internal evaluation, day-to-day work in the laboratory shall be evaluated for 15 marks and internal practical examination shall be evaluated for 10 marks conducted by the laboratory teacher concerned. The semester end examination shall be conducted with an external examiner and the laboratory teacher. The external examiner shall be appointed from the clusters of colleges which are decided by the examination branch of the university.
- 8.4 There shall be an Industrial Training in IV year I semester. For the Industrial Training, the student shall be required to work for at least 150 hours spread over four weeks in a Pharmaceutical Industry/Hospital. It includes Production unit, Quality Control department, Quality Assurance department, Analytical laboratory, Chemical manufacturing unit, Pharmaceutical R&D, Hospital (Clinical Pharmacy), Clinical Research Organization, Community Pharmacy, etc. After the IV year I semester and before the commencement of IV year II semester, the student shall submit satisfactory report of the work and certificate duly signed by the authority of training organization to the head of the institute.
- **8.5 Practice School:** In the IV year I semester, every candidate shall undergo a practice school for a period of 150 hours evenly distributed throughout the semester. The student



shall opt any one of the domains for practice school declared by the departmental committee from time to time. At the end of the practice school, every student shall submit a printed report (in triplicate) on the practice school he/she attended (not more than 25 pages). The report shall be submitted to the departmental committee consisting of Head of the Institution, Head of the Department and a senior faculty member. The practice school report shall be evaluated for 100 marks and grade point shall be awarded.

- 8.6 Out of a total of 100 marks for the UG major project, 25 marks shall be allotted for internal evaluation and 75 marks for the end semester examination (viva voce). The end semester examination of the project work shall be conducted by a committee consisting of external examiner, Head of the Department, supervisor of the project and a senior faculty member. The evaluation of UG major project shall be made at the end of IV year II semester. The internal evaluation shall be on the basis of two seminars given by each student on the topic of UG major project.
- 8.7 The laboratory marks and the sessional marks awarded by the college are subject to scrutiny and scaling by the university wherever necessary. In such cases, the sessional and laboratory marks awarded by the college will be referred to a committee. The committee will arrive at a scaling factor and the marks will be scaled accordingly. The recommendations of the committee are final and binding. The laboratory records and internal test papers shall be preserved in the respective institutions as per the university rules and produced before the committees of the university as and when asked for.
- 8.8 For mandatory courses environmental science, human values and professional ethics, gender sensitization lab and Industrial Training a student has to secure 40 marks out of 100 marks (i.e. 40% of the marks allotted) in the continuous internal evaluation for passing the subject/course.
- 8.9 For mandatory courses NCC/ NSO and NSS, a 'satisfactory participation certificate' shall be issued to the student from the authorities concerned, only after securing ≥ 65% attendance in such a course.
- 8.10 No marks or letter grade shall be allotted for all mandatory/non-credit courses.

9.0 Grading procedure

- 9.1 Marks will be awarded to indicate the performance of student in each theory subject, laboratory / practicals and UG major project. Based on the percentage of marks obtained (Continuous Internal Evaluation plus Semester End Examination, both taken together) as specified in item 8 above, a corresponding letter grade shall be given.
- 9.2 As a measure of the performance of student, a 10-point absolute grading system using the following letter grades (as per UGC/AICTE guidelines) and corresponding percentage of marks shall be followed:

% of Marks Secured in a Subject/Course (Class Intervals)	Letter Grade (UGC Guidelines)	Grade Points
Greater than or equal to 90%	O (Outstanding)	10



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80 and less than 90%	A ⁺ (Excellent)	9
70 and less than 80%	A (Very Good)	8
60 and less than 70%	B ⁺ (Good)	7
50 and less than 60%	B (Average)	6
40 and less than 50%	C (Pass)	5
Below 40%	F (FAIL)	0
Absent	Ab	0

- 9.3 A student obtaining 'F' grade in any subject shall be deemed to have 'failed' and is required to reappear as a 'supplementary student' in the semester end examination, as and when offered. In such cases, internal marks in those subjects will remain the same as those obtained earlier.
- 9.4 A student who has not appeared for examination in any subject, 'Ab' grade will be allocated in that subject, and student shall be considered 'failed'. Student will be required to reappear as a 'supplementary student' in the semester end examination, as and when offered.
- 9.5 A letter grade does not indicate any specific percentage of marks secured by the student, but it indicates only the range of percentage of marks.
- 9.6 A student earns grade point (GP) in each subject/ course, on the basis of the letter grade secured in that subject/ course. The corresponding 'credit points' (CP) are computed by multiplying the grade point with credits for that particular subject/ course.

Credit points (CP) = grade point (GP) x credits For a course

- 9.7 The student passes the subject/ course only when $GP \ge 5$ ('C' grade or above)
- 9.8 The semester grade point average (SGPA) is calculated by dividing the sum of credit points (ΣCP) secured from all subjects/ courses registered in a semester, by the total number of credits registered during that semester. SGPA is rounded off to two decimal places. SGPA is thus computed as

SGPA =
$$\{\sum_{i=1}^{N} C_i G_i\} / \{\sum_{i=1}^{N} C_i\} \dots$$
 For each semester,

where 'i' is the subject indicator index (takes into account all subjects in a semester), 'N' is the no. of subjects 'registered' for the semester (as specifically required and listed under the course structure of the parent department), C_i is the no. of credits allotted to the ith subject, and G_i represents the grade points (GP) corresponding to the letter grade awarded for that ith subject.

9.9 The cumulative grade point average (CGPA) is a measure of the overall cumulative performance of a student in all semesters considered for registration. The CGPA is the ratio of the total credit points secured by a student in all registered courses in all semesters, and the total number of credits registered in all the semesters. CGPA is rounded off to two decimal places. CGPA is thus computed from the I year II semester onwards at the end of each semester as per the formula

CGPA = $\{\sum_{j=1}^{M} C_j G_j\} / \{\sum_{j=1}^{M} C_j\} \dots$ for all S semesters registered



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(i.e., up to and inclusive of S semesters, $S \ge 2$),

where 'M' is the total no. of subjects the student has 'registered' i.e., from the 1st semester onwards up to and inclusive of the 8th semester, 'j' is the subject indicator index (takes into account all subjects from 1 to 8 semesters), C_j is the no. of credits allotted to the jth subject, and G_{jj} represents the grade points (GP) corresponding to the letter grade awarded for that jth subject. After registration and completion of first year first semester, the SGPA of that semester itself may be taken as the CGPA, as there are no cumulative effects.

Illustration of calculation of SGPA

Course/Subject	Credits	Letter Grade	Grade Points	Credit Points
Course 1	4	A	. 8	$4 \times 8 = 32$
Course 2	4	0	10	4 x 10 = 40
Course 3	4	С	5	$4 \times 5 = 20$
Course 4	3	В	6	$3 \times 6 = 18$
Course 5	3	A+	9	$3 \times 9 = 27$
Course 6	3	С	5	3 x 5 = 15
	Total Credits			Total Credit
	= 21			Points = 152

SGPA = 152/21 = 7.24

Illustration of calculation of CGPA

Course/Subject	Credits	Letter Grade	Grade Points	Credit Points
]	Year I Semeste	r	
Course 1	4	A	8	4 x 8 = 32
Course 2	4	A+	9	4 x 9 = 36
Course 3	4	В	6	4 x 6 = 24
Course 4	3	0	10	3 x 10 = 30
Course 5	3	B+	7	$3 \times 7 = 21$
Course 6	3	A	8	$3 \times 8 = 24$
	I	Year II Semeste	er	*
Course 7	4	B+	7	4 x 7 = 28
Course 8	4	0	10	4 x 10 = 40
Course 9	4	A	8	4 x 8 = 32
Course 10	3	В	6	$3 \times 6 = 18$
Course 11	3	C	5	3 x 5 = 15
Course 12	3	A+	9	$3 \times 9 = 27$
	Total Credits = 42			Total Credit Points = 327

CGPA = 327/42 = 7.79



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- 9.10 For merit ranking or comparison purposes or any other listing, only the 'rounded off' values of the CGPAs will be used.
- 9.11 For calculations listed in regulations 9.6 to 9.9, performance in failed subjects/ courses (securing F grade) will also be taken into account, and the credits of such subjects/ courses will also be included in the multiplications and summations. After passing the failed subject(s) newly secured letter grades will be taken into account for calculation of SGPA and CGPA. However, mandatory courses will not be taken into consideration.

10.0 Passing standards

- A student shall be declared successful or 'passed' in a semester, if student secures a GP≥5 ('C' grade or above) in every subject/course in that semester (i.e. when student gets an SGPA ≥ 5.00 at the end of that particular semester); and a student shall be declared successful or 'passed' in the entire under graduate programme, only when gets a CGPA≥5.00 for the award of the degree as required.
- 10.2 After the completion of each semester, a grade card or grade sheet (or transcript) shall be issued to all the registered students of that semester, indicating the letter grades and credits earned. It will show the details of the courses registered (course code, title, no. of credits, and grade earned etc.), credits earned, SGPA, and CGPA.

11.0 Declaration of results

- 11.1 Computation of SGPA and CGPA are done using the procedure listed in 9.6 to 9.9.
- 11.2 For final percentage of marks equivalent to the computed final CGPA, the following formula may be used.

% of Marks = (final CGPA - 0.5) x 10

12.0 Award of degree

- 12.1 A student who registers for all the specified subjects/ courses as listed in the course structure and secures the required number of 196 credits (with CGPA ≥ 5.0), within 8 academic years from the date of commencement of the first academic year, shall be declared to have 'qualified' for the award of the B.Pharm. degree.
- 12.2 A student who qualifies for the award of the degree as listed in item 12.1 shall be placed in the following classes.
- 12.3 Students with final CGPA (at the end of the under graduate programme) \geq 8.00, and fulfilling the following conditions -
 - (i) Should have passed all the subjects/courses in 'first appearance' within the first 4 academic years (or 8 sequential semesters) from the date of commencement of first year first semester.
 - (ii) Should have secured a CGPA \geq 8.00, at the end of each of the 8 sequential semesters, starting from first year first semester onwards.

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- (iii) Should not have been detained or prevented from writing the end semester examinations in any semester due to shortage of attendance or any other reason, shall be placed in 'first class with distinction'.
- 12.4 Students with final CGPA (at the end of the under graduate programme) ≥ 6.50 but < 8.00, shall be placed in 'first class'.
- 12.5 Students with final CGPA (at the end of the under graduate programme) ≥ 5.50 but < 6.50, shall be placed in 'second class'.</p>
- 12.6 All other students who qualify for the award of the degree (as per item 12.1), with final CGPA (at the end of the under graduate programme) ≥ 5.00 but < 5.50, shall be placed in 'pass class'.
- 12.7 A student with final CGPA (at the end of the under graduate programme) < 5.00 will not be eligible for the award of the degree.
- 12.8 Students fulfilling the conditions listed under item 12.3 alone will be eligible for award of 'university rank' and 'gold medal'.

13.0 Withholding of results

13.1 If the student has not paid the fees to the university/ college at any stage, or has dues pending due to any reason whatsoever, or if any case of indiscipline is pending, the result of the student may be withheld, and student will not be allowed to go into the next higher semester. The award or issue of the degree may also be withheld in such cases.

14.0 Transitory regulations

A. For students detained due to shortage of attendance:

- A Student who has been detained in I year of R09/R13/R15/R16 Regulations due to lack
 of attendance, shall be permitted to join I year I Semester of R17 Regulations and he is
 required to complete the study of B. Pharmacy programme within the stipulated period of
 eight academic years from the date of first admission in I Year.
- 2. A student who has been detained in any semester of II, III and IV years of R09/R13/R15/R16 regulations for want of attendance, shall be permitted to join the corresponding semester of R17 regulations and is required to complete the study of B. Pharmacy within the stipulated period of eight academic years from the date of first admission in I Year. The R17 Academic Regulations under which a student has been readmitted shall be applicable to that student from that semester.

See rule (C) for further Transitory Regulations.

B. For students detained due to shortage of credits:

3. A student of R09/R13/R15/R16 Regulations who has been detained due to lack of credits, shall be promoted to the next semester of R17 Regulations only after acquiring the required credits as per the corresponding regulations of his/her first admission. The student is required to complete the study of B. Pharmacy within the stipulated period of



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eight academic years from the year of first admission. The R17 Academic Regulations are applicable to a student from the year of readmission onwards.

See rule (C) for further Transitory Regulations.

C. For readmitted students in R17 Regulations:

- 4. A student who has failed in any subject under any regulation has to pass those subjects in the same regulations.
- 5. The maximum credits that a student acquires for the award of degree, shall be the sum of the total number of credits secured in all the regulations of his/her study including R17 Regulations. The performance evaluation of the student will be done after the exemption of two subjects if total credits acquired are ≤ 206, three subjects if total credits acquired are > 206 (see R17 Regulations for exemption details).
- If a student readmitted to R17 Regulations, has any subject with 80% of syllabus common with his/her previous regulations, that particular subject in R17 Regulations will be substituted by another subject to be suggested by the University.

Note: If a student readmitted to R17 Regulations, has not studied any subjects/topics in his/her earlier regulations of study which is prerequisite for further subjects in R17 Regulations, the College Principals concerned shall conduct remedial classes to cover those subjects/topics for the benefit of the students.

15.0 Student transfers

- 15.1 There shall be no branch transfers after the completion of admission process.
- 15.2 There shall be no transfers from one college/stream to another within the constituent colleges and units of Jawaharlal Nehru Technological University Hyderabad.
- 15.3 The students seeking transfer to colleges affiliated to JNTUH from various other Universities/institutions have to pass the failed subjects which are equivalent to the subjects of JNTUH, and also pass the subjects of JNTUH which the students have not studied at the earlier institution. Further, though the students have passed some of the subjects at the earlier institutions, if the same subjects are prescribed in different semesters of JNTUH, the students have to study those subjects in JNTUH in spite of the fact that those subjects are repeated.
- 15.4 The transferred students from other Universities/institutions to JNTUH affiliated colleges who are on rolls to be provide one chance to write the CBT (internal marks) in the **failed** subjects and/or subjects not studied as per the clearance letter issued by the university.
- 15.5 The autonomous affiliated colleges have to provide one chance to write the internal examinations in the **failed subjects and/or subjects not studied**, to the students transferred from other universities/institutions to JNTUH autonomous affiliated colleges who are on rolls, as per the clearance (equivalence) letter issued by the University.

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- 16.0 **Scope**
- 16.1 The academic regulations should be read as a whole, for the purpose of any interpretation.
- 16.2 In case of any doubt or ambiguity in the interpretation of the above rules, the decision of the Vice-Chancellor is final.
- 16.3 The university may change or amend the academic regulations, course structure or syllabi at any time, and the changes or amendments made shall be applicable to all students with effect from the date notified by the university authorities.



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD (Established by Act No. 30 of 2008)

Kukatpally, Hyderabad, Telangana (India).

Academic Regulations for B.Pharm. (Lateral Entry Scheme) w.e.f the AY 2018-19

1. Eligibility for award of B. Pharm. Degree (LES)

The LES students after securing admission shall pursue a course of study for not less than three academic years and not more than six academic years.

- 2. The student shall register for 147 credits and secure 147 credits with CGPA ≥ 5 from II year to IV year B.Pharm. programme (LES) for the award of B.Pharm. degree. Out of the 147 credits secured, the student can avail exemption up to 6 credits, that is, two open elective subjects resulting in 141 credits for B.Pharm programme performance evaluation.
- 3. The students, who fail to fulfil the requirement for the award of the degree in six academic years from the year of admission, shall forfeit their seat in B.Pharm.
- 4. The attendance requirements of B. Pharm. (Regular) shall be applicable to B.Pharm. (LES).

5. <u>Promotion rule</u>

S. No	Promotion	Conditions to be fulfilled	
1	Second year first semester to second year second semester	Regular course of study of second year first semester.	
2	Second year second semester to third year first semester	(i) Regular course of study of second year second semester.	
		(ii) Must have secured at least 29 credits out of 48 credits i.e., 60% of credits up	



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		to second year second semester from all the relevant regular and supplementary examinations, whether the student takes those examinations or not.
3	Third year first semester to third year second semester	Regular course of study of third year first semester.
4	Third year second semester to fourth year first semester	(i) Regular course of study of third year second semester. (ii) Must have secured at least 58 credits out of 96 credits i.e., 60% of credits up to third year second semester from all the relevant regular and supplementary examinations, whether the student takes those examinations or not.
5	Fourth year first semester to fourth year second semester	Regular course of study of fourth year first semester.

6. All the other regulations as applicable to B. Pharm. 4-year degree course (Regular) will hold good for B. Pharm. (Lateral Entry Scheme).

MALPRACTICES RULES DISCIPLINARY ACTION FOR / IMPROPER CONDUCT IN EXAMINATIONS

-	Nature of Malpractice/Improper conduct	Punishment
	If the student:	
1. (a)	Possesses or keeps accessible in examination hall, any paper, note book, programmable calculators, cell phones, pager, palm computers or any other form of material concerned with or related to the subject of the examination (theory or practical) in which student is appearing but has not made use of (material shall include any marks on the body of the student which can be used as an aid in the subject of the examination)	Expulsion from the examination hall and cancellation of the performance in that subject only.
(b)	Gives assistance or guidance or receives it from any other student orally or by any other body language methods or	Expulsion from the examination hall and cancellation of the performance in that subject only of all the students involved. In case of an

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_	communicates through cell phones with any student or persons in or outside the exam hall in respect of any matter.	outsider, he will be handed over to the police and a case is registered against him.
2.	Has copied in the examination hall from any paper, book, programmable calculators, palm computers or any other form of material relevant to the subject of the examination (theory or practical) in which the student is appearing.	Expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the student has already appeared including practical examinations and UG major project and shall not be permitted to appear for the remaining examinations of the subjects of that semester/year. The hall ticket of the student is to be cancelled and sent to the university.
3.	Impersonates any other student in connection with the examination.	The student who has impersonated shall be expelled from examination hall. The student is also debarred and forfeits the seat. The performance of the original student who has been impersonated, shall be cancelled in all the subjects of the examination (including practicals and UG major project) already appeared and shall not be allowed to appear for examinations of the remaining subjects of that semester/year. The student is also debarred for two consecutive semesters from class work and all university examinations. The continuation of the course by the student is subject to the academic regulations in connection with forfeiture of seat. If the imposter is an outsider, he will be handed over to the police and a case is registered against him.
4.	Smuggles in the answer book or additional sheet or takes out or arranges to send out the question paper during the examination or answer book or additional sheet, during or after the examination.	Expulsion from the examination hall and cancellation of performance in that subject and all the other subjects the student has already appeared including practical examinations and UG major project and shall not be permitted for the remaining examinations of the subjects of that semester/year. The student is also debarred for two consecutive semesters from class work and all university examinations. The continuation of the course by the student is subject to the academic regulations in connection with forfeiture of seat.
5.	Uses objectionable, abusive or offensive language in the answer paper or in letters to the examiners or writes to the examiner requesting him to award pass marks.	Cancellation of the performance in that subject.

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6.	Refuses to obey the orders of the chief superintendent/assistant — superintendent / any officer on duty or misbehaves or creates disturbance of any kind in and around the examination hall or organizes a walk out or instigates others to walk out, or threatens the officer-in charge or any person on duty in or outside the examination hall of any injury to his person or to any of his relations whether by words, either spoken or written or by signs or by visible representation, assaults the officer-in-charge, or any person on duty in or outside the examination hall or any of his relations, or indulges in any other act of misconduct or mischief which result in damage to or destruction of property in the examination hall or any part of the college campus or engages in any other act which in the opinion of the officer on duty amounts to use of unfair means or misconduct or has the tendency to disrupt the orderly conduct of the examination.	In case of students of the college, they shall be expelled from examination halls and cancellation of their performance in that subject and all other subjects the student(s) has (have) already appeared and shall not be permitted to appear for the remaining examinations of the subjects of that semester/year. The students also are debarred and forfeit their seats. In case of outsiders, they will be handed over to the police and a police case is registered against them.		
7.	Leaves the exam hall taking away answer script or intentionally tears of the script or any part thereof inside or outside the examination hall.	Expulsion from the examination hall and cancellation of performance in that subject and all the other subjects the student has already appeared including practical examinations and UG major project and shall not be permitted for the remaining examinations of the subjects of that semester/year. The student is also debarred for two consecutive semesters from class work and all university examinations. The continuation of the course by the student is subject to the academic regulations in connection with forfeiture of seat.		
8.	Possess any lethal weapon or firearm in the examination hall.	Expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the student has already appeared including practical examinations and UG major project and shall not be permitted for the remaining examinations of the subjects of that semester/year. The student is also debarred and forfeits the seat.		
9.	If student of the college, who is not a student for the particular examination or	Student of the colleges expulsion from the examination hall and cancellation of the		
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	any person not connected with the college indulges in any malpractice or improper conduct mentioned in clause 6 to 8.	performance in that subject and all other subjects the student has already appeared including practical examinations and UG major project and shall not be permitted for the remaining examinations of the subjects of that semester/year. The student is also debarred and forfeits the seat.
		Person(s) who do not belong to the college will be handed over to police and, a police case will be registered against them.
10.	Comes in a drunken condition to the examination hall.	Expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the student has already appeared including practical examinations and UG major project and shall not be permitted for the remaining examinations of the subjects of that semester/year.
11.	Copying detected on the basis of internal evidence, such as, during valuation or during special scrutiny.	Cancellation of the performance in that subject and all other subjects the student has appeared including practical examinations and UG major project of that semester/year examinations.
12.	If any malpractice is detected which is not covered in the above clauses 1 to 11 shall be reported to the university for further action to award suitable punishment.	

Malpractices identified by squad or special invigilators

- 1. Punishments to the students as per the above guidelines.
- 2. Punishment for institutions : (if the squad reports that the college is also involved in encouraging malpractices)
 - a. A show cause notice shall be issued to the college.
 - b. Impose a suitable fine on the college.
 - c. Shifting the examination centre from the college to another college for a specific period of not less than one year.



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD (Established by Act No.30 of 2008) Kukatpally, Hyderabad–500085, Telangana State (India)

Academic Regulations of M.Pharm. (Regular/Full Time) Programmes, 2019-20 (R19)

(CBCS)

(Effective for the students admitted into I year from the Academic Year 2019-20 and onwards)

- 1.0 Post-Graduate Degree Programmes in Pharmacy (PGP in Pharmacy) Jawaharlal Nehru Technological University Hyderabad (JNTUH) offers Two Years (Four Semesters) full-time Master of Pharmacy (M.Pharm.) Degree programmes, under Choice Based Credit System (CBCS) at its constituent (non-autonomous) and affiliated colleges in different specializations.
- 2.0 Eligibility for Admissions
- 2.1 Admission to the PGPs shall be made subject to eligibility, qualification and specializations prescribed by the University from time to time, for each specialization under each M.Pharm. programme.
- 2.2 Admission to the post graduate programme shall be made on the basis of either the merit rank or Percentile obtained by the qualified student in the relevant qualifying GPAT Examination/ the merit rank obtained by the qualified student in an entrance test conducted by Telangana State Government (PGECET) for M.Pharm. programmes / an entrance test conducted by JNTUH/ on the basis of any other exams approved by the University, subject to reservations as laid down by the Govt. from time to time.
- 2.3 The medium of instructions for all PG Programmes will be ENGLISH only.
- 3.0 M.Pharm. Programme (PGP in Pharmacy) Structure
- 3.1 The M.Pharm. Programmes in Pharmacy of JNTUH are of Semester pattern, with **Four** Semesters consisting of **Two** academic years, each academic year having **Two** Semesters (First/Odd and Second/Even Semesters). Each Semester shall be of 22 weeks duration (inclusive of Examinations), with a minimum of 90 instructional days per Semester.
- 3.2 The student shall not take more than four academic years to fulfill all the academic requirements for the award of M.Pharm. degree from the date of commencement of first year first semester, failing which the student shall forfeit the seat in M.Pharm. programme.
- 3.3 UGC/AICTE specified definitions/descriptions are adopted appropriately for various terms and abbreviations used in these PG academic regulations, as listed below:

3.3.1 Semester Scheme

Each Semester shall have 'Continuous Internal Evaluation (CIE)' and 'Semester End Examination (SEE)'. Choice Based Credit System (CBCS) and Credit Based Semester System (CBSS) are taken as 'references' for the present set of Regulations. The terms 'SUBJECT' and 'COURSE' imply the same meaning here and refer to 'Theory Subject', or 'Lab Course', or 'Design/Drawing Subject', or 'Mini Project with Seminar', or 'Dissertation', as the case may be.

3.3.2 Credit Courses

All subjects/courses are to be registered by the student in a semester to earn credits which shall be assigned to each subject/course in an L: T: P: C (Lecture Periods: Tutorial Periods: Practical Periods: Credits) structure based on the following general pattern:

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- One credit for one hour/week/semester for theory/lecture (L) courses
- One credit for two hours/ week/semester for laboratory/ practical (P) courses or tutorials (T)

Other student activities like study tour, guest lecture, conference/workshop participations, technical paper presentations and mandatory courses (*Audit Courses*) will not carry any credits.

3.3.3 Subject Course Classification

All subjects/courses offered for the Post-Graduate Programme in Pharmacy (M.Pharm. Degree Programme) are broadly classified as follows. The University has followed in general the guidelines issued by AICTE/UGC.

S.No.	Broad Course Classification	Course Group/ Category	Course Description	
		PC- Professional Core	Includes subjects related to the Specialization in Pharmacy	
1	Core Courses (CoC)	Dissertation	M.Pharm. Project or PG Project or Major Project	
		Mini Project with	Seminar based on core contents related to the	
		Seminar	Specialization in Pharmacy	
		PE -	Includes elective subjects related to the	
		Professional	Specialization in Pharmacy	
2	Elective Courses	Electives		
2	(EIE)	OE - Open	Elective subjects which include inter-disciplinary	
		Electives	subjects or subjects in an area outside the	
			Specialization in Pharmacy	
3	Mandatory Courses		Non-Credit Audit Courses	

4.0 Course Registration

- 4.1 A 'Faculty Advisor or Counselor' shall be assigned to each specialization, who will advise on the Post Graduate Programme (PGP), its Course Structure and Curriculum, Choice/Option for Subjects/ Courses, based on his competence, progress, pre-requisites and interest.
- 4.2 The Academic Section of the College invites 'Registration Forms' from students within 15 days from the commencement of class work through 'ON-LINE SUBMISSIONS', ensuring 'DATE and TIME Stamping'. The ON-LINE Registration Requests for any 'CURRENT SEMESTER' shall be completed BEFORE the commencement of SEEs (Semester End Examinations) of the 'PRECEDING SEMESTER'.
- 4.3 A Student can apply for ON-LINE Registration, ONLY AFTER obtaining the 'WRITTEN APPROVAL' from his Faculty Advisor, which should be submitted to the College Academic Section through the Head of Department (a copy of it being retained with Head of Department, Faculty Advisor and the Student).
- 4.4 If the Student submits ambiguous choices or multiple options or erroneous entries during ON-LINE Registration for the Subject(s) / Course(s) under a given/ specified Course Group/ Category as listed in the Course Structure, only the first mentioned Subject/ Course in that Category will be taken into consideration.
- 4.5 Subject/ Course Options exercised through ON-LINE Registration are final and CANNOT be changed, nor can they be inter-changed; further, alternate choices also will not be considered. However, if the Subject/ Course that has already been listed for Registration by the University in a Semester could not be offered due to unforeseen or unexpected reasons, then the Student will be allowed to have alternate



choice either for a new Subject, if it is offered, or for another existing Subject (subject to availability of seats). Such alternate arrangements will be made by the Head of Department, with due notification and time-framed schedule, within the FIRST WEEK from the commencement of Class-work for that Semester.

5.0 Attendance Requirements

The programmes are offered based on a unit system with each subject being considered a unit. Attendance is calculated separately for each subject.

- 5.1 Attendance in all classes (Lectures/Laboratories) is compulsory. The minimum required attendance in each theory subject (also mandatory(audit) courses) including the attendance of mid-term examination / Laboratory etc. is 75%. Two periods of attendance for each theory subject shall be considered, if the student appears for the mid-term examination of that subject. This attendance should also be included in the fortnightly upload of attendance to the University. The attendance of mandatory(audit) courses should be uploaded separately to the University. A student shall not be permitted to appear for the Semester End Examinations (SEE), if his attendance is less than 75%.
- 5.2 A student's Seminar report and presentation on Mini Project shall be eligible for evaluation, only if he ensures a minimum of 75% of his attendance in Seminar presentation classes on Mini Project during that Semester.
- 5.3 Condoning of shortage of attendance (between 65% and 75%) up to a maximum of 10% (considering the days of attendance in sports, games, NCC, NSS activities and Medical grounds) in each subject (Theory/Lab/Mini Project with Seminar) of a semester shall be granted by the College Academic Committee on genuine reasons.
- 5.4 A prescribed fee per subject shall be payable for condoning shortage of attendance after getting the approval of College Academic Committee for the same. The College Academic Committee shall maintain relevant documents along with the request from the student.
- 5.5 Shortage of Attendance below 65% in any subject shall in **no case be condoned**.
- A Student, whose shortage of attendance is not condoned in any Subject(s) (Theory/Lab/Mini Project with Seminar) in any Semester, is considered as 'Detained in that Subject(s), and is not eligible to write Semester End Examination(s) of such Subject(s), (in case of Mini Project with Seminar, his/her Mini Project with Seminar Report or Presentation are not eligible for evaluation) in that Semester; and he/she has to seek re-registration for those Subject(s) in subsequent Semesters, and attend the same as and when offered.
- 5.7 A student fulfills the attendance requirement in the present semester, shall not be eligible for readmission into the same class.
- 5.8 a) A student shall put in a minimum required attendance in at least three theory subjects (excluding mandatory(audit) course) in first Year I semester for promotion to first Year II Semester.
 - b) A student shall put in a minimum required attendance in at least three theory subjects (excluding mandatory(audit) course) in first Year II semester for promotion to second Year I Semester.

6.0 Academic Requirements

The following academic requirements must be satisfied, in addition to the attendance requirements mentioned in item no. 5. The performance of the candidate in each semester shall be evaluated subject-

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wise, with a maximum of 100 marks per subject / course (theory / practical), based on Internal Evaluation and Semester End Examination.

- A student shall be deemed to have satisfied the academic requirements and earned the credits allotted to each subject/course, if he secures not less than 40% of marks (30 out of 75 marks) in the End Semester Examination, and a minimum of 50% of marks in the sum total of CIE (Continuous Internal Evaluation) and SEE (Semester End Examination) taken together; in terms of Letter Grades and this implies securing 'B' Grade or above in a subject.
- 6.2 A student shall be deemed to have satisfied the academic requirements and earned the credits allotted to Mini Project with seminar, if student secures not less than 50% marks (i.e. 50 out of 100 allotted marks). The student would be treated as failed, if student (i) does not submit a seminar report on Mini Project or does not make a presentation of the same before the evaluation committee as per schedule or (ii) secures less than 50% marks in Mini Project with seminar evaluation. The failed student shall reappear for the above evaluation when the notification for supplementary examination is issued.
- 6.3 A student shall register for all subjects for total of 68 credits as specified and listed in the course structure for the chosen specialization, put in required the attendance and fulfill the academic requirements for securing 68 credits obtaining a minimum of 'B' Grade or above in each subject, and all 68 credits securing Semester Grade Point Average (SGPA) ≥6.0 (in each semester) and final Cumulative Grade Point Average (CGPA) (i.e., CGPA at the end of PGP) ≥ 6.0, and shall pass all the mandatory(audit) courses to complete the PGP successfully.
- Note: (1) The SGPA will be computed and printed on the marks memo only if the candidate passes in all the subjects offered and gets minimum B grade in all the subjects.
 - (2) CGPA is calculated only when the candidate passes in all the subjects offered in all the semesters
- 6.4 Marks and Letter Grades obtained in all those subjects covering the above specified 68 credits alone shall be considered for the calculation of final CGPA, which will be indicated in the Grade Card /Marks Memo of second year second semester.
- 6.5 If a student registers for extra subject(s) (in the parent specialization or other specializations of Pharmacy) other than those listed subjects totaling to 68 credits as specified in the course structure, the performance in extra subject(s) (although evaluated and graded using the same procedure as that of the required 68 credits) will not be considered while calculating the SGPA and CGPA. For such extra subject(s) registered, percentage of marks and Letter Grade alone will be indicated in the Grade Card/Marks Memo, as a performance measure, subject to completion of the attendance and academic requirements as stated in items 5 and 6.1 6.3.
- When a student is detained due to shortage of attendance in any subject(s) in any semester, no Grade allotment will be made for such subject(s). However, he is eligible for re-registration of such subject(s) in the subsequent semester(s), as and when next offered, with the academic regulations of the batch into which he is re-registered, by paying the prescribed fees per subject. In all these re-registration cases, the student shall have to secure a fresh set of internal marks and Semester End Examination marks for performance evaluation in such subject(s), and SGPA/CGPA calculations.
- 6.7 A student eligible to appear for the Semester End Examination in any subject, but absent from it or failed (failing to secure 'B' Grade or above), may reappear for that subject at the supplementary examination as and when conducted. In such cases, his Internal Marks assessed earlier for that subject will be carried over, and added to the marks secured in the supplementary examination, for



the purpose of evaluating his performance in that subject.

- 6. 8 A Student who fails to earn 68 credits as per the specified course structure, and as indicated above, within four academic years from the date of commencement of his first year first semester, shall forfeit his seat in M.Pharm. programme and his admission shall stand cancelled.
- 7.0 Evaluation Distribution and Weightage of Marks

The performance of a student in each semester shall be evaluated subject- wise (irrespective of credits assigned) for a maximum of 100 marks.

- 7.1 For the theory subjects 75 marks shall be awarded for the performance in the Semester End Examination and 25 marks shall be awarded for Continuous Internal Evaluation (CIE). The Continuous Internal Evaluation shall be made based on the average of the marks secured in the two Mid-Term Examinations conducted, first Mid-Term examinations in the middle of the Semester and second Mid-Term examinations during the last week of instruction. Each Mid-Term Examination shall be conducted for a total duration of 120 minutes with Part 'A' as compulsory consisting of 5 questions carrying 2 marks each (10 marks), and Part 'B' with 3 questions to be answered out of 5 questions, each question carrying 5 marks (15 marks). The details of the Question Paper pattern for Semester End Examination (Theory) are given below:
 - The Semester End Examination will be conducted for 75 marks. It consists of two parts.
 i) Part A for 25 marks, ii) Part B for 50 marks.
 - Part A is compulsory and consists of 5 questions, one from each unit and carrying 5 marks each.
 - Part B consists of 5 questions carrying 10 marks each. There will be two questions from each unit and only one should be answered.
- **7.2** For practical subjects, 75 marks shall be awarded for performance in the Semester End Examinations and 25 marks shall be awarded for day-to-day performance as Internal Marks.
- 7.3 For conducting laboratory end examinations of all PG Programmes, one internal examiner and one external examiner are to be appointed by the Principal of the College and this is to be informed to the Director of Evaluation within two weeks, before commencement of the lab end examinations. The external examiner should be selected from outside the College concerned but within the cluster. No external examiner should be appointed from any other College in the same cluster/any other cluster which is run by the same Management.
- 7.4 There shall be Mini Project with Seminar during I year II semester for internal evaluation of 100 marks. The Departmental Academic Committee (DAC) will review the progress of the mini project during the seminar presentations and evaluate the same for 50 marks. Mini Project Viva Voce will be evaluated by the DAC for another 50 marks before the semester end examinations. Student shall carryout the mini project in consultation with the mini project supervisor which may include critically reviewing the literature, project implementation and submit it to the department in the form of a report and shall make an oral presentation before the DAC consisting of Head of the Department, Mini Project supervisor and two other senior faculty members of the department. The student has to secure a minimum of 50% of marks in i) seminar presentation and ii) mini project viva voce, to be declared successful. If he fails to obtain the minimum marks, he has to reappear for the same as and when scheduled.

7.5 Every candidate shall be required to submit a dissertation on a topic approved by the Dissertation Review Committee.

7.6 A Dissertation Review Committee (DRC) shall be constituted with the Head of the Department as



Chairperson, Dissertation Supervisor and one senior faculty member of the Department offering the M.Pharm. programme.

- 7.7 Registration of Dissertation Work: A candidate is permitted to register for the Dissertation Work after satisfying the attendance requirement in all the subjects, both theory and laboratory.
- 7.8 After satisfying 7.7, a candidate must present in Dissertation Work Review I, in consultation with his Dissertation Supervisor, the title, objective and plan of action of his Dissertation work to the Dissertation Review Committee (DRC) for approval within four weeks from the commencement of Second year First Semester. Only after obtaining the approval of the DRC can the student initiate the Dissertation work.
- 7.9 If a candidate wishes to change his supervisor or topic of the Dissertation, he can do so with the approval of the DRC. However, the DRC shall examine whether or not the change of topic/supervisor leads to a major change of his initial plans of Dissertation proposal. If yes, his date of registration for the project work starts from the date of change of Supervisor or topic as the case may be.
- **7.10** A candidate shall submit his Dissertation progress report in two stages at least with a gap of **three** months between them.
- 7.11 The work on the Dissertation shall be initiated at the beginning of the II year and the duration of the Dissertation is two semesters. A candidate is permitted to submit Dissertation Thesis only after successful completion of all theory and practical courses with the approval of DRC not earlier than 40 weeks from the date of approval of the Dissertation work. For the approval of DRC the candidate shall submit the draft copy of thesis to the Head of the Department and make an oral presentation before the DRC.
- 7.12 The Dissertation Work Review II in II Year I Sem. carries internal marks of 100. Evaluation should be done by the DRC for 50 marks and the Supervisor will evaluate the work for the other 50 marks. The Supervisor and DRC will examine the Problem Definition, Objectives, Scope of Work, Literature Survey in the same domain and progress of the Dissertation Work. A candidate has to secure a minimum of 50% of marks to be declared successful in Dissertation Work Review II. If he fails to obtain the minimum required marks, he has to reappear for Dissertation Work Review II as and when conducted.
- 7.13 The Dissertation Work Review III in II Year II Sem. carries 100 internal marks. Evaluation should be done by the DRC for 50 marks and the Supervisor will evaluate it for the other 50 marks. The DRC will examine the overall progress of the Dissertation Work and decide whether or not the Dissertation is eligible for final submission. A candidate has to secure a minimum of 50% of marks to be declared successful in Dissertation Work Review III. If he fails to obtain the required minimum marks, he has to reappear for Dissertation Work Review III as and when conducted. For Dissertation Evaluation (Viva Voce) in II Year II Sem. there are external marks of 100 and it is evaluated by the external examiner. The candidate has to secure a minimum of 50% marks in Dissertation Evaluation (Viva-Voce) examination.
- 7.14 Dissertation Work Reviews II and III shall be conducted in phase I (Regular) and Phase II (Supplementary). Phase II will be conducted only for unsuccessful students in Phase I. The unsuccessful students in Dissertation Work Review II (Phase II) shall reappear for it at the time of Dissertation Work Review III (Phase I). These students shall reappear for Dissertation Work Review III in the next academic year at the time of Dissertation Work Review III follows. The unsuccessful students in Dissertation Work Review III (Phase II) shall reappear for Dissertation Work Review III in the next academic year only at the time of Dissertation Work Review II (Phase I).



- 7.15 After approval from the DRC, a soft copy of the thesis should be submitted for <u>ANTI-PLAGIARISM</u> check and the plagiarism report should be submitted to the University and be included in the final thesis. The Thesis will be accepted for submission, if the similarity index is less than 30%. If the similarity index has more than the required_percentage, the student is advised to modify accordingly and re-submit the soft copy of the thesis after one month. The maximum number of re-submissions of thesis after plagiarism check is limited to TWO. The candidate has to register for the Dissertation work and work for two semesters. After three attempts, the admission is liable to be cancelled. The college authorities are advised to make plagiarism check of every soft copy of theses before submissions.
- 7.16 Three copies of the Dissertation Thesis certified by the supervisor shall be submitted to the College/School/Institute, after submission of a research paper related to the Dissertation work in a UGC approved journal. A copy of the submitted research paper shall be attached to thesis.
- 7.17 The thesis shall be adjudicated by an external examiner selected by the University. For this, the Principal of the College/School/Institute shall submit a panel of three examiners from among the list of experts in the relevant specialization as submitted by the supervisor concerned and Head of the Department.
- 7.18 If the report of the external examiner is unsatisfactory, the candidate shall revise and resubmit the Thesis. If the report of the examiner is unsatisfactory again, the thesis shall be summarily rejected. Subsequent actions for such dissertations may be considered, only on the specific recommendations of the external examiner and /or Dissertation Review Committee. No further correspondence in this matter will be entertained, if there is no specific recommendation for resubmission.
- 7.19 If the report of the examiner is satisfactory, the Head of the Department shall coordinate and make arrangements for the conduct of Dissertation Viva-Voce examination. The Dissertation Viva-Voce examination shall be conducted by a board consisting of the Supervisor, Head of the Department and the external examiner who adjudicated the Thesis. The candidate has to secure a minimum of 50% of marks in Dissertation Evaluation (Viva-Voce) examination.
- 7.20 If he fails to fulfill the requirements as specified in 7.19, he will reappear for the Dissertation Viva-Voce examination only after three months. In the reappeared examination also, if he fails to fulfill the requirements, he will not be eligible for the award of the degree, unless he is asked to revise and resubmit his Dissertation Work by the board within a specified time period (within four years from the date of commencement of his first year first semester).
- 7.21 The Dissertation Viva-Voce External examination marks must be submitted to the University on the day of the examination.
- 7.22 For mandatory(audit) courses, a student has to secure 40 marks out of 100 marks (i.e. 40% of the marks allotted) in the continuous internal evaluation for passing the subject/course. These marks should also be uploaded along with the internal marks of other subjects.
- 7.23 No marks or letter grades shall be allotted for mandatory(audit) courses. Only Pass/Fail shall be indicated in Grade Card.
- 8.0 Re-Admission/Re-Registration
- 8.1 Re-Admission for Discontinued Student

A student, who has discontinued the M.Pharm. degree programme due to any reason whatsoever, may be considered for 'readmission' into the same degree programme (with the same specialization) with the academic regulations of the batch into which he gets readmitted, with prior permission from the authorities concerned, subject to item 6.6.



- 8.2 If a student is detained in a subject (s) due to shortage of attendance in any semester, he may be permitted to **re-register** for the same subject(s) in the same category (core or elective group) or equivalent subject, if the same subject is not available, as suggested by the Board of Studies of that department, as and when offered in the subsequent semester(s), with the academic regulations of the batch into which he seeks re-registration, with prior permission from the authorities concerned, subject to item 3.2
- 8.3 A candidate shall be given one chance to re-register and attend the classes for a maximum of two subjects, if the internal marks secured by a candidate are less than 50% and failed in those subjects but fulfilled the attendance requirement. A candidate must re-register for failed subjects within four weeks of commencement of the class work and secure the required minimum attendance. In the event of the student taking this chance, his Continuous Internal Evaluation (internal) marks and Semester End Examination marks obtained in the previous attempt stand cancelled.
- 9.0 Examinations and Assessment The Grading System
- 9.1 Grades will be awarded to indicate the performance of each student in each Theory Subject, or Lab/Practicals, or Mini Project with Seminar, Dissertation, etc., based on the percentage of marks obtained in CIE + SEE (Continuous Internal Evaluation + Semester End Examination, both taken together) as specified in Item 7 above, and a corresponding Letter Grade shall be given.
- 9.2 As a measure of the student's performance, a 10-point Absolute Grading System using the following Letter Grades (UGC Guidelines) and corresponding percentage of marks shall be followed:

% of Marks Secured in a subject/Course (Class Intervals)	Letter Grade (UGC Guidelines)	Grade Points
90% and above (≥ 90%, ≤ 100%)	O (Outstanding)	10
Below 90% but not less than 80% (≥80%, <90%)	A⁺ (Excellent)	9
Below 80% but not less than 70% (≥70%, <80%)	A (Very Good)	8
Below 70% but not less than 60% (≥60%, <70%)	B ⁺ (Good)	7
Below 60% but not less than 50% (≥ 50%, <60%)	B (above Average)	6
Below 50% (< 50%)	F (FAIL)	0
Absent	Ab	0

- 9.3 A student obtaining F Grade in any Subject is deemed to have 'failed' and is required to reappear as 'Supplementary Candidate' for the Semester End Examination (SEE), as and when conducted. In such cases, his Internal Marks (CIE Marks) in those subjects will remain as obtained earlier.
- 9.4 If a student has not appeared for the examinations, 'Ab' Grade will be allocated to him for any subject and shall be considered 'failed' and will be required to reappear as 'Supplementary Candidate' for the Semester End Examination (SEE), as and when conducted.
- 9.5 A Letter Grade does not imply any specific marks percentage; it is only the range of percentage of marks.

9.6 In general, a student shall not be permitted to repeat any Subject/ Course (s) only for the sake of 'Grade Improvement' or 'SGPA' CGPA Improvement'.

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9.7 A student earns Grade Point (GP) in each Subject/ Course, on the basis of the Letter Grade obtained by him in that Subject/ Course. The corresponding 'Credit Points' (CP) are computed by multiplying the Grade Point with Credits for that particular Subject/ Course.

Credit Points (CP) = Grade Point (GP) x Credits For a Course

- 9.8 The student passes the Subject/ Course only when he gets GP ≥6 (B Grade or above).
- 9.9 The Semester Grade Point Average (SGPA) is calculated by dividing the Sum of Credit Points (ΣCP) secured from ALL Subjects/ Courses registered in a Semester, by the Total Number of Credits registered during that Semester. SGPA is rounded off to TWO Decimal Places. SGPA is thus computed as

$$SGPA = \left\{ \sum_{i=1}^{N} C_{i} G_{i} \right\} / \left\{ \sum_{i=1}^{N} C_{i} \right\} \text{ For each Semester,}$$

where 'i' is the Subject indicator index (taking into account all Subjects in a Semester), 'N' is the no. of Subjects 'REGISTERED' for the Semester (as specifically required and listed under the Course Structure of the parent Department), C_i is the no. of Credits allotted to the ith Subject, and G_i represents the Grade Points (GP) corresponding to the Letter Grade awarded for that ith Subject.

9.10 The Cumulative Grade Point Average (CGPA) is a measure of the overall cumulative performance of a student over all Semesters considered for registration. The CGPA is the ratio of the Total Credit Points secured by a student in ALL registered Courses in ALL Semesters, and the Total Number of Credits registered in ALL the Semesters. CGPA is rounded off to TWO Decimal Places. CGPA is thus computed from the I Year Second Semester onwards, at the end of each Semester, as per the formula

$$\sum_{j=1}^{M} c_{j} G_{j} \sum_{j=1}^{M} c_{j}$$
CGPA = $\{i=1, j \} / \{i=1, j \} \dots$ for all S Semesters registered

(ie., upto and inclusive of S Semesters, S≥2),

where 'M' is the TOTAL no. of Subjects (as specifically required and listed under the Course Structure of the parent Department) the Student has 'REGISTERED' for from the 1st Semester onwards upto and inclusive of the Semester S (obviously M > N), 'j' is the Subject indicator index (taking into account all Subjects from 1 to S Semesters), ^{C}i is the no. of Credits allotted to the jth Subject, and ^{G}i represents the Grade Points (GP) corresponding to the Letter Grade awarded for that jth Subject. After registration and completion of I Year I Semester however, the SGPA of that Semester itself may be taken as the CGPA, as there are no cumulative effects.

Illustration of calculation of SGPA

Course/Subject	Credits	Letter Grade	Grade points	Credit Points
Course 1	4	Α	8	4*8 = 32
Course 2	4	0	10	4*10 = 40
Course 3	4	В	6	4*6 = 24
Course 4	3	В	6	3*6 = 18
Course 5	3	A+	9	3*9 = 27
Course 6	3	В	6	3*6 = 18
TITIT	E 0 21	1,		159



SGPA = 159/21 = 7.57

Illustration of calculation of CGPA

Semester	Credits	SGPA	Credits * SGPA
Semester I	24	7	24*7 = 168
Semester II	24	6	24*6 = 144
Semester III	24	6.5	24*6.5 = 156
Semester IV	24	6	24*6 = 144
	96		612

CGPA = 612/96 = 6.37

10.0 Award of Degree and Class

10.1 If a student who registers for all the specified Subjects/ Courses as listed in the Course Structure, satisfies all the Course Requirements, and passes the examinations prescribed in the entire PG Programme (PGP), and secures the required number of 68 Credits (with CGPA ≥6.0), shall be declared to have 'QUALIFIED' for the award of the M.Pharm. Degree in the chosen specialization of Pharmacy that he was admitted into.

10.2 Award of Class

After a student has earned the requirements prescribed for the completion of the programme and is eligible for the award of M.Pharm. Degree, he shall be placed in one of the following three classes based on the CGPA:

Class Awarded	CGPA ≥ 7.75 6.75≤ CGPA < 7.75	
First Class with Distinction		
First Class		
Second Class	6.00≤ CGPA < 6.75	

A student with final CGPA (at the end of the PGP) < 6.00 shall not be eligible for the Award of Degree.

11.0 Withholding of Results

If the student has not paid the dues, if any, to the University or if any case of indiscipline is pending against him, the result and degree of the student will be withheld and he will not be allowed into the next semester.

12.0 General

- 12.1 Credit: A unit by which the course work is measured. It determines the number of hours of instructions required per week. One credit is equivalent to one hour of teaching (lecture or tutorial) or two hours of practical work/field work per week.
- 12.2 Credit Point: It is the product of grade point and number of credits for a course.

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- 12.3 Wherever the words "he", "him", "his", occur in the regulations, they shall include "she", "her".
- 12.4 The academic regulation should be read as a whole for the purpose of any interpretation.



- 12.5 In case of any doubt or ambiguity in the interpretation of the above rules, the decision of the University is final.
- 12.6 The University may change or amend the academic regulations or syllabi at any time and the changes or amendments made shall be applicable to all the students with effect from the dates notified by the University.

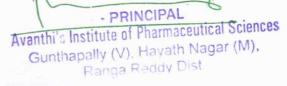




MALPRACTICES RULES

DISCIPLINARY ACTION FOR IMPROPER CONDUCT IN EXAMINATIONS

exa pro pag ma sub	If the candidate: cossesses or keeps accessible in camination hall, any paper, note book, ogrammable calculators, Cell phones, ager, palm computers or any other form of aterial concerned with or related to the abject to the examination (theory or actical) in which he is appearing but has not ade use of (material shall include any marks of the body of the candidate which can be	Expulsion from the examination hall and cancellation of the performance in that subject only.
exa pro pag ma sub	camination hall, any paper, note book, ogrammable calculators, Cell phones, ager, palm computers or any other form of aterial concerned with or related to the abject to the examination (theory or actical) in which he is appearing but has not ade use of (material shall include any marks)	cancellation of the performance in that subject
ma on use	sed as an aid in the subject of the camination).	
froi oth cor car	ives assistance or guidance or receives it om any other candidate orally or by any her body language methods or immunicates through cell phones with any andidate or persons in or outside the examall in respect of any matter.	Expulsion from the examination hall and cancellation of the performance in that subject only of all the candidates involved. Incase of an outsider, he will be handed over to the police and a case is registered against him.
paj cor rele (the	as copied in the examination hall from any aper, book, programmable calculators, palm imputers or any other form of material levant to the subject to the examination neory or practical) in which the candidate is opearing.	Expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the candidate has already appeared including practical examinations and project work and shall not be permitted to appear for the remaining examinations of the subjects of that Semester/year. The Hall Ticket of the candidate is to be cancelled and sent to the University.
	personates any other candidate in onnection with the examination.	The candidate who has impersonated shall be expelled from examination hall. The candidate is also debarred and forfeits the seat. The performance of the original candidate, who has been impersonated, shall be cancelled in all the subjects of the examination (including practicals and project work) already appeared and shall not be allowed to appear for examinations of the remaining subjects of that semester/year. The candidate is also debarred for two consecutive semesters from class work and all University examinations. The continuation of the course by the candidate is subject to the academic regulations in connection with forfeiture of seat. If the imposter is an outsider, he will be handed over to the police and a case is registered against him.
she	muggles in the Answer book or additional neet or takes out or arranges to send out the nestion paper during the examination or	Expulsion from the examination hall and cancellation of performance in that subject and all the other subjects the candidate has already



ABDULLAPURME!*



	answer book or additional sheet, during or after the examination.	appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the subjects of that semester/year. The candidate is also debarred for two consecutive semesters from class work and all University examinations. The continuation of the course by the candidate is subject to the academic regulations in connection with forfeiture of seat.
5.	Uses objectionable, abusive or offensive language in the answer paper or in letters to the examiners or writes to the examiner requesting him to award pass marks.	Cancellation of the performance in that subject.
6.	Refuses to obey the orders of the Chief Superintendent/Assistant — Superintendent/ any officer on duty or misbehaves or creates disturbance of any kind in and around the examination hall or organizes a walk out or instigates others to walk out, or threatens the officer-in charge or any person on duty in or outside the examination hall of any injury to his person or to any of his relations whether by words, either spoken or written or by signs or by visible representation, assaults the officer-in- charge, or any person on duty in or outside the examination hall or any of his relations, or indulges in any other act of misconduct or mischief which result in damage to or destruction of property in the examination hall or any part of the College campus or engages in any other act which in the opinion of the officer on duty amounts to use of unfair means or misconduct or has the tendency to disrupt the orderly conduct of the examination.	Incase of students of the college, they shall be expelled from examination halls and cancellation of their performance in that subject and all other subjects the candidate(s) has (have) already appeared and shall not be permitted to appear for the remaining examinations of the subjects of that semester/year. The candidates also are debarred and forfeit their seats. In case of outsiders, they will be handed over to the police and a police case is registered against them.
7.	Leaves the exam hall taking away answer script or intentionally tears of the script or any par there of inside or outside the examination hall.	Expulsion from the examination hall and cancellation of performance in that subject and all the other subjects the candidate has already appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the subjects of that semester/year. The candidate is also debarred for two consecutive semesters from class work and all University examinations. The continuation of the course by the candidate is subject to the academic regulations in connection with forfeiture of seat.
8.	Possess any lethal weapon or firearm in the examination hall.	Expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the candidate has already appeared including practical examinations and project work and shall not be permitted for the
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		remaining examinations of the subjects of that semester/year. The candidate is also debarred
		and forfeits the seat.
9.	If student of the college, who is not a candidate for the particular examination or any person not connected with the college indulges in any malpractice or improper conduct mentioned in clause 6 to 8.	Student of the colleges expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the candidate has already appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the subjects of that semester/year. The candidate is also debarred and forfeits the seat. Person(s) who do not belong to the College will be handed over to police and, a police case will be registered against them.
10.	Comes in a drunken condition to the examination hall.	Expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the candidate has already appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the subjects of that semester/year.
11.	Copying detected on the basis of internal evidence, such as, during valuation or during special scrutiny.	Cancellation of the performance in that subject and all other subjects the candidate has appeared including practical examinations and project work of that semester/year examinations.
12.	If any malpractice is detected which is not covered in the above clauses 1 to 11 shall be reported to the University for further action to award suitable punishment.	•

Malpractices identified by squad or special invigilators

- 1. Punishments to the candidates as per the above guidelines.
- 2. Punishment for institutions: (if the squad reports that the college is also involved in encouraging malpractices)
 - (i) A show cause notice shall be issued to the college.
 - (ii) Impose a suitable fine on the college.
 - (iii) Shifting the examination centre from the college to another college for a specific period of not less than one year

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नई दिल्ली, शनिवार, मई 10-मई 16, 2008 (वैशाख 20, 1930)

NEW DELHI, SATURDAY, MAY 10-MAY 16, 2008 (VAISAKHA 20, 1930)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके। (Separate paging is given to this Part in order that it may be filed as a separate compilation)

भाग III—खण्ड 4 [PART III—SECTION 4]

[सांविधिक निकायों द्वारा जारी की गई विविध अधिसूचनाएं जिसमें कि आदेश, विज्ञापन और सूचनाएं सम्मिलित हैं] [Miscellaneous Notifications including Notifications, Orders, Advertisements and Notices issued by Statutory Bodies]

भारतीय रिज़र्व बैंक

मुंबई-400001, दिनांक 9 अप्रैल 2008

सदर्भ: बैंपविवि. सं. आईबीडी.-14241/23.13.048/2007-08--भारतीय रिज़र्व बैंक अधिनियम, 934 (1934 का 2) की धारा 42 की उप-धारा (6) के खण्ड (ग) के अनुसरण में भारतीय रिज़र्व बैंक सिके द्वारा निदेश देता है कि उक्त अधिनियम की दूसरी अनुसूची में निम्नलिखित परिवर्तन किये जाएं:--

''अरब बांगलादेश बेंक लिमिटेड'' शब्दों के स्थान पर ''एबी बेंक लिमिटेड'' शब्द होंगे।

आनन्द सिन्हा कार्यपालक निदेशक

[PUBLISHED IN THE GAZETTE OF INDIA, No.19, PART III, SECTION 4]

Ministry of Health and Family Welfare (Pharmacy Council of India)

New Delhi, 10th May, 2008.

Pharm.D. Regulations 2008

Regulations framed under section 10 of the Pharmacy Act, 1948 (8 of 1948).

(As approved by the Government of India, Ministry of Health vide, letter No.V.13013/1/2007-PMS, dated the 13th March, 2008 and notified by the Pharmacy Council of India).

No.14-126/2007-PCI.— In exercise of the powers conferred by section 10 of the Pharmacy Act, 1948 (8 of 1948), the Pharmacy Council of India, with the approval of the Central Government, hereby makes the following regulations, namely:-

CHAPTER-I

- 1. Short title and commencement. (1) These regulations may be called the Pharm.D. Regulations 2008.
 - (2) They shall come into force from the date of their publication in the official Gazette.
- 2. Pharm.D. shall consist of a certificate, having passed the course of study and examination as prescribed in these regulations, for the purpose of registration as a pharmacist to practice the profession under the Pharmacy Act, 1948.

CHAPTER-II

- 3. Duration of the course.
 - a) Pharm.D: The duration of the course shall be six academic years (five years of study and one year of internship or residency) full time with each academic year spread over a period of not less than two hundred working days. The period of six years duration is divided into two phases
 - Phase I consisting of First, Second, Third, Fourth and Fifth academic year.
 - Phase II consisting of internship or residency training during sixth year involving posting in speciality units. It is a phase of training wherein a student is exposed to actual pharmacy practice or clinical pharmacy services and acquires skill under supervision so that he or she may become capable of functioning independently.
 - b) Pharm.D. •(Post Baccalaureate): The duration of the course shall be for three academic years (two years of study and one year internship or residency) full time with each academic year spread over a period of not less than two hundred working days. The period of three years duration is divided into two phases
 - Phase I consisting of First and Second academic year.
 - Phase II consisting of Internship or residency training during third year involving posting in speciality units. It is a phase of training wherein a student is exposed to actual pharmacy practice or clinical pharmacy services, and acquires skill under supervision so that he or she may become capable of functioning independently.
- 4. Minimum qualification for admission to. –
- a) Pharm.D. Part-I Course A pass in any of the following examinations -
- (1) 10+2 examination with Physics and Chemistry as compulsory subjects along with one of the following subjects:

Mathematics or Biology.

- (2) A pass in D.Pharm course from an institution approved by the Pharmacy Council of India under section 12 of the Pharmacy Act.
- (3) Any other qualification approved by the Pharmacy Council of India as equivalent to any of the above examinations.

Provided that a student should complete the age of 17 years on or before 31st December of the year of admission to the course.

Provided that there shall be reservation of seats for the students belonging to the Scheduled Castes, Scheduled Tribes and other Backward Classes in accordance with the instructions issued by the Central Government/State Government/Union Territory Administration as the case may be from time to time.

b) Pharm.D. (Post Baccalaureate) Course -

A pass in B.Pharm from an institution approved by the Pharmacy Council of India under section 12 of the Pharmacy Act:

Provided that there shall be reservation of seats for the students belonging to the Scheduled Castes, Scheduled Tribes and other Backward Classes in accordance with the instructions issued by the Central Government/State Government/Union Territory Administration as the case may be from time to time.

- 5. Number of admissions in the above said programmes shall be as prescribed by the Pharmacy Council of India from time to time and presently be restricted as below
 - i) Pharm.D. Programme 30 students.
 - ii) Pharm.D. (Post Baccalaureate) Programme 10 students.
- 6. Institutions running B.Pharm programme approved under section 12 of the Pharmacy Act, will only be permitted to run Pharm.D. programme. Pharm.D. (Post Baccalaureate) programme will be permitted only in those institutions which are permitted to run Pharm.D. programme.
- 7. Course of study. The course of study for Pharm.D. shall include the subjects as given in the Tables below. The number of hours in a week, devoted to each subject for its teaching in theory, practical and tutorial shall not be less than that noted against it in columns (3), (4) and (5) below.

TABLES

First Year: '

S.No.	Name of Subject	No. of hours of Theory	No. of hours of Practical	No. of hours of Tutorial
(1)	(2)	(3)	(4)	(5)
1.1	Human Anatomy and Physiology	3	3	1
1.2	Pharmaceutics	2	3	1
1.3	Medicinal Biochemistry	3	3	1
1.4	Pharmaceutical Organic Chemistry	3	3	1
1.5	Pharmaceutical Inorganic Chemistry	. 2	3	1
1.6	Remedial Mathematics/ Biology	3	3*	1
	Total hours	16	18	6 = (40)

^{*} For Biology

Second Year:

S.No	Name of Subject	No. of hours of Theory	No. of hours of Practical	No. of hours of Tutorial
(1)	(2)	(3)	(4)	. (5)
2.1	Pathophysiology	3	-	1
2.2	Pharmaceutical Microbiology	3	3	1
2.3	Pharmacognosy & Phytopharmaceuticals	3	3	1
2.4	Pharmacology-I	3	-	1
2.5	Community Pharmacy	2		1
2.6	Pharmacotherapeutics-I	3	3	1
	Total Hours	17	9	6 = 32

Third Year:

S.No.	Name of Subject	No. of hours of Theory	No. of hours of Practical	No. of hours of Tutorial
(1)	(2)	(3)	(4)	(5)
3.1	Pharmacology-II	3	3	1
3.2	Pharmaceutical Analysis	3	3	1
3.3	Pharmacotherapeutics-II	3	3	1
3.4	Pharmaceutical Jurisprudence	2	-	-
3.5	Medicinal Chemistry	3	3	1
3.6	Pharmaceutical Formulations	2	3	1
	Total hours	16	15	5 = 36

Fourth Year:

S.No.	Name of Subject	No. of hours of Theory	No. of hours of Practical/ Hospital Posting	No. of hours of Tutorial	
(1)	(2)	(3)	(4)	(5)	
4.1	Pharmacotherapeutics-III	3	3	1	
4.2	Hospital Pharmacy	2	3	1	
4.3	Clinical Pharmacy	3	3	1	
4.4	Biostatistics & Research Methodology	2	-	1	
4.5	Biopharmaceutics & Pharmacokinetics	3	3	1	
4.6	Clinical Toxicology	2	-	1	
	Total hours	15	12	6 = 33	

Fifth Year:

S.No.	Name of Subject	No. of hours of Theory	No. of hours of Hospital posting*	No. of hours of Seminar
(1)	. (2)	(3)	(4)	(5)
5.1	Clinical Research	3	-	1
5.2	Pharmacoepidemiology and Pharmacoeconomics	3	-	1
5.3	Clinical Pharmacokinetics & Pharmacotherapeutic Drug Monitoring	2	-	1
5.4	Clerkship *	-	-	1
5.5	Project work (Six Months)	-	20	-
	Total hours	8	20	4 = 32

^{*} Attending ward rounds on daily basis.

Sixth Year:

Internship or residency training including postings in speciality units. Student should independently provide the clinical pharmacy services to the allotted wards.

- (i) Six months in General Medicine department, and
- (ii) Two months each in three other speciality departments
- 8. Syllabus. The syllabus for each subject of study in the said Tables shall be as specified in Appendix -A to these regulations.
- 9. Approval of the authority conducting the course of study. (1) No person, institution, society or university shall start and conduct Pharm.D or Pharm.D. (Post Baccalaureate) programme without the prior approval of the Pharmacy Council of India.
 - (2) Any person or pharmacy college for the purpose of obtaining permission under sub-section (1) of section 12 of the Pharmacy Act, shall submit a scheme as prescribed by the Pharmacy Council of India.
 - (3) The scheme referred to in sub-regulation (2) above, shall be in such form and contain such particulars and be preferred in such manner and be accompanied with such fee as may be prescribed:

Provided that the Pharmacy Council of India shall not approve any institution under these regulations unless it provides adequate arrangements for teaching in regard to building, accommodation, labs., equipments, teaching staff, non-teaching staff, etc., as specified in Appendix-B to these regulations.

- 10. Examination. -(1) Every year there shall be an examination to examine the students.
 - (2) Each examination may be held twice every year. The first examination in a year shall be the annual examination and the second examination shall be supplementary examination.
 - (3) The examinations shall be of written and practical (including oral nature) carrying maximum marks for each part of a subject as indicated in Tables below:

TABLES

First Year examination:

S.No.	Name of Subject	Maximum marks for Theory			Maximum marks for Practicals			
		Examination	Sessional	· Total	Examination	Sessional	Total	
1.1	Human Anatomy and Physiology	70	30	100	70	30	100	
1.2	Pharmaceutics	70	30	100	70	30	100	
1.3	Medicinal Biochemistry	70	30	100	70	30	100	
1.4	Pharmaceutical Organic Chemistry	70	30	100	70	30	100	
1.5	Pharmaceutical Inorganic Chemistry	70	30	100	70	30	100	
1.6	Remedial Mathematics/ Biology	70	30	100	70*	30*	100*	
				600			600 = 1200	

^{*} for Biology.

Second Year examination :

S.No.	Name of Subject	Maximum marks for Theory			Maximum marks for Practicals		
		Examination	Sessional	Total	Examination	Sessional	Total
2.1	Pathophysiology	70	30	100		-	-
2.2	Pharmaceutical Microbiology	70	30	100	70	30	100
2.3	Pharmacognosy & Phytopharmaceuticals	70	30	100	70	30	100
2.4	Pharmacology-I	70	30	100	-	-	-
2.5	Community Pharmacy	70	30	100	-	-	_
2.6	Pharmacotherapeutics-I	70	30	100	70	30	100
				600			300 = 900

Third Year examination:

S.No.	Name of Subject	Maximum marks for Theory			Maximum marks for Practicals		
		Examination	Sessional	Total	Examination	Sessional	Total
3.1	Pharmacology-II	70	30	100	70	30	100
3.2	Pharmaceutical Analysis	70	30	100	70	30	100
3.3	Pharmacotherapeutics-II	70	30	100	70	30	100
3.4	Pharmaceutical Jurisprudence	70	30	100	-	-	-
3.5	Medicinal Chemistry	70	30	100	70	30	100
3.6	Pharmaceutical Formulations	70	30	100	70	30	100
				600			500 = 1100

Fourth Year examination:

S.No.	Name of Subject	Maximum marks for Theory			Maximum marks for Practicals		
	•	Examination	Sessional	Total	Examination	Sessional	Total
4.1	Pharmacotherapeutics-III	70	30	100	70	30	100
4.2	Hospital Pharmacy	70	30	100	70	30	100
4.3	Clinical Pharmacy	70	30	100	70	30	100
4.4	Biostatistics & Research Methodology	70	30	100	-	-	-
4.5	Biopharmaceutics & Pharmacokinetics	70	30	100	70	30	100
4.6	Clinical Toxicology	70	30	100		-	-
				600			400 = 1000

Fifth Year examination:

S.No.	Name of Subject	Maximum marks for Theory			Maximum marks for Practicals		
		Examination	Sessional	Total	Examination	Sessional	Total
5.1	Clinical Research	70	30	100	-	-	-
5.2	Pharmacoepidemiology and Pharmacoeconomics	70	30	100	-	•3	1
5.3	Clinical Pharmacokinetics & Pharmacotherapeutic Drug Monitoring	70	30	100	-		-
5.4	Clerkship *	-		-	70	30	100
5.5	Project work (Six Months)	-		-	100**		100
				300			200 = 500

^{*} Attending ward rounds on daily basis.

70 marks - Thesis work

- 11. Eligibility for appearing Examination.— Only such students who produce certificate from the Head of the Institution in which he or she has undergone the Pharm.D. or as the case may be, the Pharm.D. (Post Baccalaureate) course, in proof of his or her having regularly and satisfactorily undergone the course of study by attending not less than 80% of the classes held both in theory and in practical separately in each subject shall be eligible for appearing at examination.
- 12. Mode of examinations.— (1) Theory examination shall be of three hours and practical examination shall be of four hours duration.
 - (2) A Student who fails in theory or practical examination of a subject shall re-appear both in theory and practical of the same subject.
 - (3) Practical examination shall also consist of a viva –voce (Oral) examination.
 - (4) Clerkship examination Oral examination shall be conducted after the completion of clerkship of students. An external and an internal examiner will evaluate the student. Students may be asked to present the allotted medical cases followed by discussion. Students' capabilities in delivering clinical pharmacy services, pharmaceutical care planning and knowledge of therapeutics shall be assessed.
- 13. Award of sessional marks and maintenance of records.— (1) A regular record of both theory and practical class work and examinations conducted in an institution imparting training for Pharm.D. or as the case may be, Pharm.D. (Post Baccalaureate) course, shall be maintained for each student in the institution and 30 marks for each theory and 30 marks for each practical subject shall be allotted as sessional.
 - (2) There shall be at least two periodic sessional examinations during each academic year and the highest aggregate of any two performances shall form the basis of calculating sessional marks.
 - (3) The sessional marks in practicals shall be allotted on the following basis:-
 - (i) Actual performance in the sessional examination (20 marks);
 - (ii) Day to day assessment in the practical class work, promptness, viva-voce record maintenance, etc. (10 marks).

^{** 30} marks - viva-voce (oral)

- 14. Minimum marks for passing examination.— A student shall not be declared to have passed examination unless he or she secures at least 50% marks in each of the subjects separately in the theory examinations, including sessional marks and at least 50% marks in each of the practical examinations including sessional marks. The students securing 60% marks or above in aggregate in all subjects in a single attempt at the Pharm.D. or as the case may be, Pharm. D. (Post Baccalaureate) course examination shall be declared to have passed in first class. Students securing 75% marks or above in any subject or subjects shall be declared to have passed with distinction in the subject or those subjects provided he or she passes in all the subjects in a single attempt.
- 15. Eligibility for promotion to next year.— All students who have appeared for all the subjects and passed the first year annual examination are eligible for promotion to the second year and, so on. However, failure in more than two subjects shall debar him or her from promotion to the next year classes.
- 16. Internship.— (1) Internship is a phase of training wherein a student is expected to conduct actual practice of pharmacy and health care and acquires skills under the supervision so that he or she may become capable of functioning independently.
 - (2) Every student has to undergo one year internship as per Appendix-C to these regulations.
- 17. Approval of examinations.— Examinations mentioned in regulations 10 to 12 and 14 shall be held by the examining authority hereinafter referred to as the university, which shall be approved by the Pharmacy Council of India under sub-section (2) of section 12 of the Pharmacy Act, 1948. Such approval shall be granted only if the examining authority concerned fulfills the conditions as specified in Appendix–D to these regulations.
- 18. Certificate of passing examination.— Every student who has passed the examinations for the Pharm.D. (Doctor of Pharmacy) or Pharm.D. (Post Baccalaureate) (Doctor of Pharmacy) as the case may be, shall be granted a certificate by the examining authority.

CHAPTER-III Practical training

- 19. Hospital posting.— Every student shall be posted in constituent hospital for a period of not less than fifty hours to be covered in not less than 200 working days in each of second, third & fourth year course. Each student shall submit report duly certified by the preceptor and duly attested by the Head of the Department or Institution as prescribed. In the fifth year, every student shall spend half a day in the morning hours attending ward rounds on daily basis as a part of clerkship. Theory teaching may be scheduled in the afternoon.
- 20. Project work.— (1) To allow the student to develop data collection and reporting skills in the area of community, hospital and clinical pharmacy, a project work shall be carried out under the supervision of a teacher. The project topic must be approved by the Head of the Department or Head of the Institution. The same shall be announced to students within one month of commencement of the fifth year classes. Project work shall be presented in a written report and as a seminar at the end of the year. External and the internal examiners shall do the assessment of the project work.
 - (2) Project work shall comprise of objectives of the work, methodology, results, discussions and conclusions.
- 21. Objectives of project work.— The main objectives of the project work is to—
 - (i) show the evidence of having made accurate description of published work of others and of having recorded the findings in an impartial manner; and
 - (ii) develop the students in data collection, analysis and reporting and interpretation skills.
- 22. Methodology.— To complete the project work following methodology shall be adopted, namely:—
 - (i) students shall work in groups of not less than *two* and not more than *four* under an authorised teacher;
 - (ii) project topic shall be approved by the Head of the Department or Head of the Institution;
 - (iii)project work chosen shall be related to the pharmacy practice in community, hospital and clinical setup. It shall be patient and treatment (Medicine) oriented, like drug utilisation reviews, pharmacoepidemiology, pharmacovigilance or pharmacoeconomics;
 - (iv)project work shall be approved by the institutional ethics committee;
 - (v) student shall present at least three seminars, one in the beginning, one at middle and one at the end of the project work; and
 - (vi)two-page write-up of the project indicating title, objectives, methodology anticipated benefits and references shall be submitted to the Head of the Department or Head of the Institution.

- 23. Reporting .— (1) Student working on the project shall submit jointly to the Head of the Department or Head of the Institution a project report of about 40-50 pages. Project report should include a certificate issued by the authorised teacher, Head of the Department as well as by the Head of the Institution
 - (2) Project report shall be computer typed in double space using Times Roman font on A4 paper. The title shall be in bold with font size 18, sub-tiles in bold with font size 14 and the text with font size 12. The cover page of the project report shall contain details about the name of the student and the name of the authorised teacher with font size 14.
 - (3) Submission of the project report shall be done at least one month prior to the commencement of annual or supplementary examination.
- 24. Evaluation.— The following methodology shall be adopted for evaluating the project work—
 - (i) Project work shall be evaluated by internal and external examiners.
 - (ii) Students shall be evaluated in groups for four hours (i.e., about half an hour for a group of four students).
 - (iii)Three seminars presented by students shall be evaluated for twenty marks each and the average of best two shall be forwarded to the university with marks of other subjects.

(iv) Evaluation shall be done on the following items:	Marks
a) Write up of the seminar	(7.5)
b) Presentation of work	(7.5)
c) Communication skills	(7.5)
d) Question and answer skills	(7.5)
Total	(30 marks)
(v) Final evaluation of project work shall be done on the following items:	Marks
(v) Final evaluation of project work shall be done on the following items: a) Write up of the seminar	Marks (17.5)
a) Write up of the seminar	(17.5)
a) Write up of the seminar b) Presentation of work	(17.5) (17.5)

Explanation.— For the purposes of differentiation in the evaluation in case of topic being the same for the group of students, the same shall be done based on item numbers b, c and d mentioned above.





COURSE FILE

SUBJECT:

PHARMACOTHERAPEUTICS-I

ACADEMIC YEAR:

2020-2021

NAME OF THE FACULTY:

Dr. EVANGILEEN

DESIGNATION:

ASSISTANT PROFESSOR

DEPARTMENT:

PHARMACY PRACTICE

DELAULIAIEIAI

PHARM.D

YEAR

BRANCH

II YEAR



AND SENTENCE DE SE

Course File Index

No.	ITEM DESCRIPTION
1	VISION AND MISSION
2	COURSE OUTCOMES
3	COURSE SYLLABUS
4	LESSON PLAN
5	ACADEMIC CALENDER
6	TIME TABLE
7	LECTURE NOTES
8	UNIVERSITY QUESTION PAPER
9	INTERNAL QUESTION PAPER
10	INTERNAL QUESTION PAPER WITH ANSWER KEY
1	ASSIGNMENT QUESTION PAPER
12	STUDENT ASSIGNMENT
3	RESULT
14	ATTAINMENT

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Gunthapally (V), Abdullspurmet (M)
R.R. Dist. Telangena.

COURSE FILE

COURSE DESRIPTION/COURSE INFORMATION SHEET

NAME OF THE DEPARTMENT: PHARM.D

COURSE TITLE	PHARMACOTHERAPEUTICS-I					
COURSE CODE	PH206					
REGULATION	R8 YEAR II					
COURSE	LECTURES	TUTORIAL	S PRACTIC	PRACTICALS		
STRUCTURE	3	1	3	3		
COURSE TEACHER	Dr. EVANGI	LEEN				
NO.OF HOURS	LECTURES	TU	TORIALS	P	RACTICALS	
ALLOTED PER WEEK	3	1		3		



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Gunthapally (V), Abdullapurmet (M),

R.R. Dist. Telangana.

Gunthapally (V), Abdullapurmet (M), R.R. Dist., Near Ramoji Filmcity, Hyderabad - 501 512.





1.VISION & MISSION OF THE INSTITUTION

VISION	TO DEVELOP HIGHLY SKILLED PROFESSIONALS WITH ETHICS AND HUMAN VALUES
MISSION	WE ARE COMMITTED TO PROVIDE A POSITIVE AND PROFESSIONAL LEARNING ENVIRONMENT WHERE ALL STUDENTS ARE INSPIRED TO STRIVE FOR EXCELLENCE IN ORDER TO ACHIEVE THEIR POTENTIAL AS DIGNIFIED AND COMPETENT PHARMACISTS, TECHNOLOGY INNOVATORS, MANAGERS AND LEADERS IN GLOBAL SOCIETY THROUGH A COHESIVE NETWORK THE PARENTS, STUDENTS, COLLEGE STAFF AND INDUSTRY.

COURSE HANDOUT

- > PROGRAM OUTCOMES & PROGRAM SPECIFIC OUTCOMES (POs) & (PSOs)
- COURSE OUTCOMES(COs)
- DETAILED SYLABUS

Program Outcomes (POs) and (PSOs)

- **PO 1 Pharmacy Knowledge:** Provide high quality, evidence-based, patient-centeredcare in cooperation with patients, prescribers and members of the inter professional health care team
- **PO 2 Practical Skill:** Demonstrate mastery and application of core knowledge and skills in relation to the evolving biomedical, clinical, epidemiological and social-behavioral sciences.
- **PO 3 Professional Identity:** Evaluate practice and care, and promote continuous improvement in one's own patient care and pharmacy services

PO 4 Problem Solving: Demonstrate self-calibration skills and a commitment to the lifelong learning needed to provide high quality care

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PO 5 Communication: Effectively utilize information, informatics and technology to optimize learning and patient care

PO 6 Planning Ability: Demonstrate effective interpersonal written and verbal skills, adapt to socioeconomic and cultural factors as well as situational applications

PO 7 Leadership Skills & Team Work: Demonstrate exemplary professional, ethical and legal behaviors, complying with all federal, state and local laws and regulations related to pharmacy practice

PO 8 Life Long Learning: Demonstrate awareness and responsiveness to the system of health care, effectively utilizing systems of care to provide cost-effective, optimal care

PO9 Pharmaceutical Ethics: Honour personal values and apply ethical principles in professional and social context. Demonstrate behavior that recognizes cultural and personal variability in values, communication and life styles.

PO10 Pharmacist and Society: Apply reasoning informed by the contextual knowledge to asses societal, health, safety and legal issues and the consequent responsibilities relevant to the profession.

PO11 Environment and Society: Understand the impact of professional pharmacy solutions in societal and environmental context and demonstrate the knowledge of, and need for sustainable development.

PSO1: Able to apply the knowledge gained during the course of the program in drug discovery and development, their safety and efficacy and current technologies in Pharmaceutical industry.

PSO 2: Able to apply the knowledge of ethical and management principles required to work in a team as well as to lead a team.

PSO3: Able to do multidisciplinary jobs in the pharmaceutical industries and would be able to write effective project reports in multidisciplinary environment in the context of changing technologies.

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CO1: In continuation with the previous year, this subject would have continued describing about the different drugs used for treatment of diseases. CO2: The students would have learnt about drugs used to cancer, inflammation, respiratory system, GIT, immune system and hormones. CO3: They would have understood the principles of animal toxicology and bioassay procedures. CO4: They would have learnt in depth knowledge on cell, macromolecules, cell signaling, DNA replication and cell cycle.



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DETAILED SYLLABUS

S. No.	Topic						
01	Cardiovascular system						
	Hypertension, Congestive cardiac failure, Angina Pectoris, Myocardial infarction, , Hyperlipidaemias , Electrophysiology of heart and Arrhythmias						
02	Respiratory system: Introduction to Pulmonary function test, Asthma, Chronic obstructive airways disease, Drug induced pulmonary diseases						
	Endocrine system :						
	Diabetes, Thyroid diseases, Oral contraceptives, Hormone replacement therapy, Osteoporosis						
03	General prescribing guidelines for						
	a. Paediatric patients						
	b. Geriatric patients						
	c. Pregnancy and breast feeding						
04	Ophthalmology						
	Glaucoma, Conjunctivitis- viral & bacterial						
05	Introduction to rational drug use						
	Definition, Role of pharmacist						
	Essential drug concept Rational drug formulations						
TEXT BOOKS	a. Pathologic basis of disease by- Cotran, Kumar, Robbins						
	b. Text book of Pathology- Harsh Mohan						
	c. Text book of Pathology- Y.M. Bhinde						
REFERENCES	a. Clinical Pharmacy and Therapeutics; Second edition; Roger Walker; Churchill Livingstone publication						

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LECTURE PLAN

S. No.	Торіс	No of Lecture Hours	Teaching Learning Process
	Topic-1		
01	Cardiovascular system	30	
	Hypertension	06	Chalk & Board
	Congestive cardiac failure	06	Power Point Presentation
	Angina Pectoris, Myocardial infarction	06	Power Point Presentation
	Hyperlipidaemias	06	Power Point Presentation
	Electrophysiology of heart and Arrhythmia	06	Power Point Presentation
	Topic-2		
02	Respiratory system :	20	
02	Introduction to Pulmonary function test	04	Chalk & Board
	Asthma	04	Power Point Presentation
	Chronic obstructive airways disease	04	Power Point Presentation
	Drug induced pulmonary diseases	04	Power Point Presentation
	Endocrine system :	21	
	Diabetes	04	Power Point Presentation
	Thyroid diseases	04	Power Point Presentation
	Oral contraceptives	04	Power Point Presentation
	Hormone replacement therapy	05	Power Point Presentation
	Osteoporosis	04	Power Point Presentation
	Topic-3		
03	General prescribing guidelines for	20	
	a. Pediatric patients	07	Chalk & Board
	b. Geriatric patients	07	Chalk & Board
		06	Chalk & Board

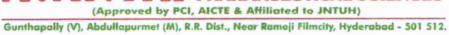
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Topic-4

MAPURMET*

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04	Ophthalmology	10	
	Glaucoma	03	Power Point Presentation
	Conjunctivitis- viral	05	Power Point Presentation
	bacterial	02	Power Point Presentation
	Topic-5		
05	Introduction to rational drug use	10	
	introduction to rational drug use	05	Chalk & Board
03	Definition, Role of pharmacist	05	Cliaik & Boald



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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

Revised Academic Calendar 2020-21

For All Constituent & Affiliated Colleges of JNTUH

Pharm. D (Regular) II, III, IV, V Year and Pharm.D (PB) II Year

S. No	Description	Duration		
		From	To	
1	Commencement of classwork		01.09.2020	
2	1 st Spell of Instructions (including Dussehra Recess, previous year End Examinations)	01.09.2020	12.12.2020 (15 Weeks)	
3	Dussehra Recess	19.10.2020	24.10.2020 (1 Week)	
4	I-Mid Term Examinations	14.12.2020	19.12.2020 (1 Week)	
5	Submission of I-Mid Term Exam Marks to the University on or before	28.12.2020		
6	2 nd Spell of Instructions	21.12.2020	20.03.2021 (13 Weeks)	
7	II-Mid Term Examinations	22.03.2021	27.03.2021 (1 Week)	
8	Submission of Second Mid Term Exam Marks to the University on or before	03.04.2021		
9	3 rd Spell of Instructions (including Laboratory classes)	30.03.2021	28.06.2021 (13 Weeks)	
10	III-Mid Term Examinations	29.06.2021	03.07.2021 (1 Week)	
11	Preparation Holidays/Lab classes / Practical Examinations	05.07.2021	17.07.2021 (2 Weeks)	
12	Submission of III-Mid Term Exam Marks to the University on or before	10.07.2021		
13	End / Supplementary Examinations	19.07.2021	31.07.2021 (2 Weeks)	

Note: Laboratory classes shall be conducted following the COVID Protocol very strictly.

F OF PHA

APURME

PHARMACEUTICAL SCIENCES Gunthapally (V), Abdullapurmet (M), R.R. Dist. Telangana.

REGISTRAR JNT UNIVERSITY HYDERABAD KUKATPALLY,

HYDERABAD-500 085







DEPARTMENT OF PHARMACY PRACTICE

A.Y 2020-21 TIME TABLE

PHARM.D II YEAR

W.E.F: 01/09/2020

COLLEGE TIMINGS:9:30AM-3:50PM

DAYS	9.30AM- 10.20AM	10.20AM- 11.10AM	11.10AM- 12.00PM	12.00AM- 12.50PM	12.5PM- 1.20PM	1.20P.M- 2.10PM		3.00PM - 3.50PM
MON	P.COL-I	СР	Р.РНҮ.	P.THERI	L	LIBR	ARY/SPOR	rs
TUE	P.THERI	MICRO	Р.РНҮ	LIBRARY	U	SEMINA	ARS	СР
WED	P.PHY.	MICRO	P.COL-I	MICRO	N		MICRO	
THU	P.COL-I	LIBRARY	P.COG&PHYTO	P.COG& PHYTO	С	P.CO	G&РНҮТО.	
FRI	СР	P.PHY	P.THERI(T)	P.COL-I(T)	Н	S	EMINARS	
SAT	MICRO	P.THERI	P.THERI LAB(HO	SPITALVISIT)		P.THERI	LAB (HOSP	ITAL VISIT)

Subject Name	Faculty Name	Designation
Pathophysiology	Dr. D Raviprakash	Assistant Professor
Pharmaceutical Microbiology	Dr. Ravinayak	Assistant Professor
Pharmacognosy & Phytopharmaceuticals	S. Sandhyarani	Assistant Professor
Pharmacology-I	Dr. Ayesha Khan	Assistant Professor
Community Pharmacy	Dr. P.Swathi	Assistant Professor
Pharmacotherapeutics-I	Dr. K. Anusha	Assistant Professor
PharmaceuticalMicrobiology -Lab	Dr. Ravinayak	Assistant Professor
Pharmacognosy & Phytopharmaceuticals-Lab	S. Sandhyarani	Assistant Professor
Pharmacotherapeutics-I-Lab	Dr. K. Anusha	Assistant Professor

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Menopause is the permanent Cessation of Menopause is the loss of ovarian follicular activity.

- perimenopause is the period "immediately prior to the menopause and the first year atter the Menopause.

Physiológu :-

- The hypothalamic pituitary overnan axis Controls reproductive physiology through the reproductive years.
- Pathophysiologic charges associated with Meropause are caused by loss of overan followar activity
- In the postmenopausal overy is no longer the primary Site of estradiol or progesterone Synthesis.
- As women age, circulating FSH progressively onse and ovarian inhibin decline.

When ovarian function has Ceased, Serum FSF Corcentrations are Senter.

Chinical Feature:

Washingtons

Washingtons

Are Common Shall repeated

Right Texasts

Withdrawl, which usually disappear within I to 2 years

- > Other Symptoms include Vaginal drynes, olyspareunia, Sexual dystunction and imprima Computation and Memory
- Other Symptoms include Mood surgs, depression, incomnia anthrologia, myalpia and unnary frequency.
- Long term Monadity associated with Merep.

 aux includes accelerated home loss and

 Osteoporosis

Diagnosus ;

- > The Diagnosis or Memoprius strand include a Comprehensive Medical History and physical examination, Complete blood Count and Measurement of Serum Fst.
- Fall Concentrations exceed 40 IU/L.

Itumonal of simens:

- theraps Consists of an estagen plus a proposition of the pharman.
- # In Women who have undergone huslerector huslerector
- ovents, stroto and pulmonary emboram.
- * The oral estrogen alone arm was Stopped and after a Mean of 7 years of follow-up.

The oral and to frequently. A Conjugated equi Sulfate and o 17 of endogenous by intestinal N esteore Corn attackly.	ine estrugens Her estrugens Luction estrugens Estrugens Aurosa and estrugens auropatrons	are Company int and Ma	equilin and equilin and et active— it is injetational resultant imes—tense of					
Crystalline	estradol. Estradiol pellets (implants) Contain pure constalline 17 B. estradiol and are placed sc constalline 17 B. estradiol and are placed sc into the antenior abdominal wall buttoct. They are difficult to remove.							
	Dose	Route	Frequeres					
O Conjugated equine	0.625mg	Oral	OD					
3 Synthetic Conjugated	0.625776	Osel	OD.					
3 Estropipate	1.smg	Osal	OD					
4) Ahryl Estoradiol	5 cmcg (EDF	HARMACE	0 D					
5 Internasal 17 B-	Isones	Nasat	0D					

6 Implanted 17B-

estandial

P Pacutaneous 17 B-

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Adverse Affects of estragen include

- Nausea, Headoche, breast tenderness and heavy
bleeding.

- * More Senous educase effects include incrementing.

- af Coronary heart ducase, Stroke, Venous

Thromboembolism, breast cancer and gall Hadden

A Paradermal estrogen is less likely than oral estrogen to cause names, Heodoche, breast tendomess, DVT.

robestucens:

ducase.

- En Women who have not undergone hyster. ectomy, a proposition should be added because extragon monotherapy is associated with endometeral hyperplasia and Canar.
- > The Most Commonly used and projectures are ...

 Mediusy projecterone acetate, micronized project.

 Herone and not ethisterone acetate. (NETA)
- Tour Combination extrages and progestogen and progestogen and progestogen and progestogen

Obnjugated (cee] Wanth! Institute OF PHARMACEUTICAL SCIENCES Gunthapally (V), Abdullapurmet (M),

Obnjugated (cee] (Mrn) acetat

- results in scheduled Vagnal withdraw blacking in approximately 90% of women, but absent to older women.

(2) Continuous Combined prevents Monthly bleeding 11 may initially cause importantle sporting bleading; - It's best reserved for women who are at least 2 you past Maro pauc. 3 Continuous lorg. cycle (Cyclic WHtdraw): Raduces Monthly bleading. Estrogen is grunn daily and progestages is given six times yearly for 12 to 14 days resulting in Six periods /year. a) Intermettent - Combined :- prevents monthly bleading. It Consists of 3 days of estingen therapy alone followed by 3 days of Combined estagen and progestagen, which (s) then repeated without interruption Regimen 0.625 +5mg, 0.625 Hornes 1 Oral Continuous - cyclic CEE + MPA 0.625mg +2.5mg; 0.625mg 2) Oral Continuous - Combinsol +5113; 0.45 mg +2.5mg SEPTIMENS. CEE + MPA Dorney + O. Himo; Sumg + O. 75mg (3) (Poursdemal Continuous Cyclic 17B- Estandio1 + NETA 50mcg + 6 R. R. gist. Telangaring. (4) (Bansdomal Continuos - Combined) 4B+ Estradio1 + META

depression, Headache, Mood Swangs, fluid selentra,

* ANDROGENS:

- The Therapeutic use of lestosteror in woman attraces Contouversial, but it is becoming more wide special.
- Restosterance tocatment Should not be given to post injeropausal women who are not receiving Concussant estrogen until Completor of Studies on the we of testosterance without estrogen.
 - Absolute Contraindication to and and known or :
 Suspected and moent dependent heaplases

ADRS Vinlization, fluid retention and patentially advene lipopoleus lipid effects

ESTROGEN - RECEPTOR MODULATORS:

- Selective estroger - receptor modulators pocuri bone low and Vertebroal factors.

- They bird to estroger receptors and function

- They bird to estroger antagonists

as tissue specific estroger antagonists

as tissue speciests.

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MBOLONE :

- It has combined estingenic, progestugenic and androgenic activity.
- Its effects depend on Metabolom and activation
- It protects against bone loss and arctures
 the risk of Vertebool fractures
- and Unfortunately, HDL Concentrations
- It may increase (ardiovascular rost, breast Cancer risk and endometrial on cancer risk.

Benefits of HRT:

- Most women with Vasomotor Symptoms need hormone tocalment for less than 5 yrs, without tocalment, hot flushes usually disappear within 1-2420. Hormone therapy Can usually be tapesed and Stopped alker about 2-3800
- Therapy in aclieving Varomotor Symptoms, at therapy in aclieving Varomotor Symptoms, at and all types and mounts of Systemic administration are equally effective in a due dependent fashion. If toether Can be tapead and Stapped within 5000, no evidence of inexacted principal size of because Cancer is Seen ANTH! INSTITUTE OF Size of because Cancer is Seen ANTH! INSTITUTE OF PHARMACEUTICAL SCIENCES PHARMACEUTICAL SCIENCES

Alternative to estinger for hot Make the state of the sta

Significant Vaginal digness because of laginal atrophy requires use of local or systemic estrogen therapy. It can be treated with topical estrogen cocam, tablets, or vaginal sind.

> Concomitant projectopes therapy generally is Unnecessary with low-dose micromized 17 \betaestradiol, but segular use of conjugated estradiol that segular use of conjugated equine Estrogen Cocam and other products

Ostegonosis prevention unto in women at Significant risk for Outcomoris who work take non estables accommens.

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CE Crannad with OKEN Crannar

Oslegonosis is a steletal deorder characterized by Compromised bone Stoength predisposes andividuals is an increased facture risk.

(1)

Categories of Osteoporosis include.

- (1) post Menopousal Osterporous
- (ii) Age aclased extenponous
- (iii) Soconday Osteoporous

E-tiology.

- Many Modifiable and non modifiable factors associated with an increased mak of developing Osteoporosis and schaled bone forctures.
- four stronger factors that perdict fracture will are low BMD, prior fongility foncture, age and -family history of Octoporoxis
- Women with five or mover thist factors inclus goods. -facture rist

Epidemiology :-

- + The exact prevalance is unknown, but caparts astimate that nearly half of Americans aged to gentle a older or approximately 44 million people have low bone Mans.
- In the late 1990s, based on pemphenal bone Mincoal density Measurements, 40/ of postmenopausal Women had Octopenia and 7/ shad of Potcoporasis

attaphysiology .

EAVANTH! . PHARMACEUTICAL SCIENCES Bone los ocurs when the recorpilos R.R. Dist. Telangana formation, usually from high one turnover Whice the

number and or depth of bone resorption sites grantly exceed the rate and ability of Ostcoblasts to form new bone.

In addition to reduced bone Mineral density (see bone quality and structural integrity are impaired because of the increased quantity of immediate bone that is not get adequately Mineralized of Commone, Calcium and Vitamin D difficuences leading to accelerated bone turnovee and reduced Costern ask formation.

Dring - induced. Osteoporosis may result from Systemic Controsteroids Concentrations duscrigated than 7.5mg (day), Thyroid Hormone replacement some anti-epileptic drugs, depot Machanyprograh some accepte and other agents.

Clinical Features:

- Many patients are consumer that they have Osteopa and only present after foretime.
- features can occur atter benefing. litting, or falling or independent of any activities
- The Most Common Oxteoporas Mactored fractives
 Involve the Vertebooe, pourmal femus promoted avantation of Pharmaceutical sciences
 Outhapally (V), Abdullapurmet (M).
 - 2/3 rds of the patients with Vertebral fractures a

The Scanned with OKEN Scanner

The remainder present with Moderate to severe back pair that radiates clown a leg attenda new Vertexal

Multiple Verteboal forctures decrear height and some times Cure the spine (kyphosis) with or without Significant back fram.

Diagnosis 3.

Major risk factors include current smoker, low bod Weight, history of extenporation fractive in the frist degree relative and perional history of law team factive as an adult.

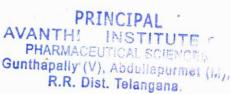
are needed to sule out Secondary Cause and to assess kyphosis and back pain

- Laboratory testing may include

> LFT. > Serum biomerites

- > Creatinine
- > naca Nitradu
- > Calcium,
- + phosphorus
- > altaline phosphate
- Albumin
- H 2T -
 - Free testosterone

24 hr crance Concentrations of



Calcum and physica.

Crannad with OVEN Cranner

- Measurement of Control BMD with dual -enough
 X-ray absorptionnetry (DXM) is the gold standard
 to Oxteoporosis diagnosis.
- Normal bone mass is a T- score greater than
 - -1; Osteopenia is a T- scoop of -1 to -2.4 and

Osteoporase is a T- score at or below - 2.5.

Prestment :

Pharmacological Thorapy :.

Anti- Recorptive theory.

A. Calcum:

Colcum Should be ingested in exceptate amusto prevent Seconday hyperposethyroidem and hore obstruction

- it Contains the highest Concentration of elemental Column and is least expensive
 - * It should be ingressed with Meals to enhance
- > Calcium citrate absorption is acid independent and need not to be taking with Medis.

Doing: Single dures of MGooding

ADR's & Constipation , flotulence or upsel & Stomach

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Marin - D suplementation: Villamin - D aleticiency results from insufficient intole decreased sun exposure, decreased sten production twee and scral Melabolum. Supplemental Mit - D Maximizes intestinal Calcaum absorption and has been shown to increase Brit. Calcitad, alfacalado! Bis phosphomates and oral Ibandionalin Alenchonale, onse dionale FDA approved too poeuenhen post operationsal Osteoporocu. _ IV I ban characte: and Zolechowe acid are only to tocational of pul Menopousal woman. * All Buphosphorates are poorly absorbed. * Each oral table! Should be taken in the Mossing with atteast 600 of plain tap water Colot coffee, Juice/- Mineral water /w Milk) attend 30 minutes before ang food. Consuming # hiazide 1) lunctics Those + Missing reserve Thiazide Divoctics

Thiazide Direction 1 Small Increase in PRINCIPAL

bane May.

Proceeding Thiazide direction to Osteophia distributions

Procedure of the Scalarable Choice for Patrent with

Osteophiase who sequix a direction and pts to Glucothouse

ha winner Calcium exception 7300 mg.

OF COMMISSION OF STREET

Dond Lesouning The	eary.		
Maria Company	Dose	* **	
MCALCIUM		Mon (6)	<u>Obes</u>
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	*	- Absorption C. Inches the Shear	te. Navendarje
* Bisphophonates		1 вид	
	tama daily	Bushosphonales bad to	
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			thy poculcinia.
* Estadou - Agrand /			Hy pocalcemia.
* Estagon Agents /			thy poculcinia.
	Anlagonal		Hy poculcimia.
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- Ratoxifene	Anlagonal Goras dady	The Cohancer BMD effects from CT and Combined	Afor flushes,
- Ratoxifene	Anlagonal Goras dady	The Cohancert BMD effects from CT mod Combined Cor Estroyon property horrowal beenty today	Afort Alushes, and
	Anlagonal	The Cohancer BMD effects from CT and Combined	Afor flushes,
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- Reloxifene - Bazedoùfene Wilh Conjugated Blogen	Anlagonal Gorrág dady 20má 1045 mái dady	The Enhancer BMD effects from CT and Combined one Estrogo proportion horroral through todor feacture resks.	Afort Alushes, try comps and Muscle Synams
- Ratoxifene	Anlagonal Gorrig dady 20mg 1045mg 1 dady Inter misel dose	The Enhancent BMD efforts from CT and Combined CE Estroya proportion horroral through total -fearture reach.	Afort flushes, try comps and Noscle Synams
- Reloxifene - Bazedoùfene Wilh Conjugated Blogen	Anlagonal Gorrág dady 20má 1045 mái dady	The Enhancer BMD effects from CT and Combined College proportion horrered theory today feaction resk.	Hot flushes. Ing comps and Noscle spaces
- Reloxifene - Bazedoùfene Wilh Conjugated Blogen	Anlagonal Gorma dady 20mg + 0.45 mg i dady Internated date to 2000 units dad	The Enhancer BMD effects from CT and Combined College proportion horrered theory today feaction resk.	Hot flushes. Ing comps and Noscle spaces
- Reloxifene - Bazedoùfene Wilh Conjugated Blogen	Anlagonal Gorrig dady 20mg 1045mg 1 dady Inter misel dose	The Cohancert BMD effects from (I mod Combined Cotrogon proportion hourseast theory today feacture took. The Cohancert BMD effects for Combined The Cohancert BMD effects The Cohanc	Moscle Symmetral Muscle Symmetral Symptoms Moscle Symmetral Symptoms Moscle Symmetral
- Reloxifene - Bazedovifene Dolla Conjugated Elogeni A * Calcutonin	Anlagonal Gorma dady 20mg + 0.45 mg 1 daily Internal date 14 200 units	The Cohancert BMD effects from CT mod Combined Cotrogon proportion horrored through total feacture reach. The throat short when Senue talknum is released for Costate has I tely has	Motele Spacine Motele Spacine Motele Spacine Supplemental Motel Michigan tracks Motel Myrophological
- Reloxifene - Bazedoùfene Wilh Conjugated Blogen	Anlagonal Gorma dady 20mg + 0.45 mg 1 daily Internal date 14 200 units	The Cohancert BMD effects from CT mind Combined Cotrogon proportion horrored through total feacture reach. The throw should when Senus talknum is released for Costate has the author	Moscle Spacing Moscle Spacing Moscle Spacing Appropriate Appropriate Moscle Spacing Mosc
- Restosterone	Anlagonal Gorma dady 20mg + 0.45 mg i dady Internated date to 2000 units dad	The Cohancert BMD effects from CT mind Combined Cotrogon proportion horrored through total feacture reach. The throw should when Senus talknum is released for Costate has the author	Moscle Spacing Moscle Spacing Moscle Spacing Appropriate Appropriate Moscle Spacing Mosc
- Restosterone	Anlagonal Garage dady 20mg + 0.45 mg of dady Antas mas all dose to 2 m units of Methyl instestment 1-25 ps 2-5mg	The Cohancert BMD effects from CT mod Combined Cotrogon proportion horrored through total feacture reach. The throat short when Senue talknum is released for Costate has I tely has	Moscle Spacing Moscle Spacing Moscle Spacing Appropriate Appropriate Moscle Spacing Mosc
- Restositence - Bazedoùfenc With Conjugated Etinger * Calcutonin * Pestosterone - Anabolic Thempy:	Anlagonal Gorma dady 20mg + 0.45 mg 1 daily Internal date 14 200 units	The Cohancat BMD effects from CT and Combined Continued proportion hourseast theory to the feaction costs. The third plant when Some the distance to the continued of the	Mot flushes. It's compt and Noticle special supplement Thomas tracks he man and by man and by my tracks he man and by my tracks he man and and he m
- Restosterone	Anlagonal Garage dady 20mg + 0.45 mg of dady Antas mas all dose to 2 m units of Methyl instestment 1-25 ps 2-5mg	The Cohancert BMD effects from CT and Combined Getrogon proportion hourseast through rator feaction reads. The throw stand when Senior throughout the antique effect that throughout an Objectional Torrenting double who he Increase bone form	Motele Spaces Motele
- Restosterone - Bazedoùfene With Conjugated Etinger * Calcitonin * Pestosterone - Anabolic Thempy:	Anlagonal Garage dady 20mg + 0.45 mg of dady Antas mas all dose to 2 m units of Methyl instestment 1-25 ps 2-5mg	The Enhancent BMD effects from (T mind Combined Getroopin proportion horrerenal through testor -feacture reach. The Horrison is released for Senum talknum is also effect stay through hor enthance they stay through hor enthance they stay through hor enthance Therean bear form the term AVANTSH	Moscle Symmetry Moscle
- Restosterone - Bazedoùfene With Conjugated Etinger * Calcitonin * Pestosterone - Anabolic Thempy:	Anlagonal Garage dady 20mg + 0.45 mg of dady Antas mas all dose to 2 m units of Methyl instestment 1-25 ps 2-5mg	The Enhancent BMD effects from (T mind Combined Getroops proportion horresont through testor -feacture reads. The Plant Shart tobard Senum Caltinum is also effect start for anthone Thereon bear form the term AVANTSH Otenhall to MANTSH	Moscle Spaces Moscle
- Restosterone - Bazedoùfene With Conjugated Etinger * Calcitonin * Pestosterone - Anabolic Thempy:	Anlagonal Garage dady 20mg + 0.45 mg of dady Antas mas all dose to 2 m units of Methyl instestment 1-25 ps 2-5mg	The Enhancent BMD effects from (T mind Combined Getroops proportion horresont through testor -feacture reads. The Plant Shart tobard Senum Caltinum is also effect start for anthone Thereon bear form the term AVANTSH Otenhall to MANTSH	Motele Spaces Motele

Non-pharmocological Preatment: All individuals should have diet balanced Calcuero adequate intate of dietary Sources Vitamin - D limited ideally Caffeine intote should be -1000 Servings per day Smoking Cossation and strengthening exercis Wilcignt - bearing acrobic and forctions by -falls Can desseare the make of ordination, halance Improving Muscle stronger 1: to. AVANTHI INSTIT PHARMACEUTICAL Gunthapally (V), Abdullagarin.

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— pulmonary quincition, —

(or) Lung junction left

* Types of pulmonary dus test ;-

in state ung function test or volume of air

D. Dynamic ling function test !- (Depends upon time)
The vale & at which air goes in & out of hunge

Itatic ung fun test is calagrized into

(1) Static lung volume

-> Tidal volume [V, /tv]

- impriratory reserve vol

- Expiratory resure val[ERV]

- Residual vol [RV]

(ii) Static lung capacity

total ring Capacity (TLC)

- vital Capacity (ve)

- Inspiratory Capacity (IC)

- tunifonal residual capacity.

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Of lungs at Quit responsation.

TV/VT = 500m / 0.5L

that to inspired topice they after a normal

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(11) Expiratory reserve vol! - Maximum amount of air Lore tuly wrong capitation. expiratory after a

[ERV = 1000m1 /1]

(N) Residual vol; - The amount of air that he remains In the lungs after nearthful borce telling expression.

Residual vol = 1200ml. /1.2 L

- I. Static lung capacity :
- (1) TOTAL rang CADAGLY (- , Nami waximum amount of all that securifiated in lungs core of all mung volumer. TLC = YT + IRY + ERY + RY

= 500 + 3=00 + 1000 + 1200 = 6000m1 /6L.

(8) Vital Capacity ?- Maximum amount of air that Can be expected force fully ofter a Deep inspiration.

> VC = IRVATVAERV = 3200 + 500 + 1000 => 4800m1

(18) Inspiratory capacity - maximum amount of dir that can

be ampored force tuly star a spokething Normal

IC = IRV + STANDOVINUS = 380gm1

Gunthapally (V), Abdullapurmet (M), (9r) functional residual capacity mot of ally that is remaine

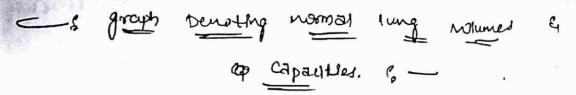
In the lung step I wormal expration.

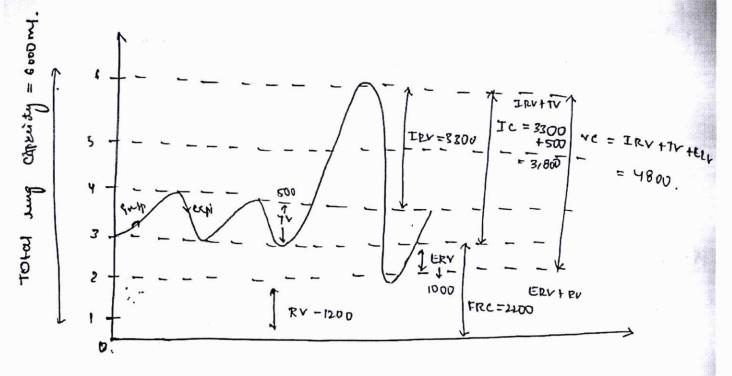
FRC = RV+ERV 4 => 1200 + 1000 => 2200ml

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2. Dynamic lung function test [DIFT's]; [It Dependy Upon -ime] The rate dir goes which m alt two 3 Clambied into 5 types (in forced Vital Capacity }-(ii) forced explications con time wild capacity (FEV) (iii) Respiratory winute MOLINES [EMN] Maximum Breathing (MRC) (or, (MM) 13 paraty (Ory Maximum rentilation w). peak

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R.R. Dist. Telangaman avantament

- (3) Forced vital capacity ; vol of air that can exhaled torced tully a rapidly a alle Dep inspiration.
- (ii) Forced expiratory vol (or) time vital capacity (vol of air which can be expirated force fully in a
 given unit of time.
- (111) Respiratory Minute volume (- vol of 29 breats on /out Every whate. 500.

 RMV = 7% TVX1200 => 6000M
- of the Misc (or) myr; Maonximum vol of air works can be breath in & out by tweed full respiration on one refinate.

174 TT 120 - 130 MAN.

(V) PEFR: - Maxmium rote it which air can be Expired after a Deep propiration



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R.R. Dist. Telangana.

HYPERLIPIDEMIA

Definition :- Hyperlipidemia is defined as elevated total Cholesteral, Low-density lipoprotein (LDL) chalesteral, or torigly ceoides; a low high - density lipoprotein (HDL) Cholosterol; or a Combination of these abnormalities.

Etiology - The Horse Major Classes of Lipoproteins tource in Serum are LDL, HDL, VLDL. IDL resides between VLDL and LDL.

- -> SMokiné
- Dankure a lot of alcohol
- -) Cating foods Hall have a lot of saturated fats as or -loginsfort.
- Seclentary Work
- Inheritary genes
- Being over weight
- Diabetes 1.
- Mengrause in Women,

t pidemiology ?- Totali cholesterol increases -throughout life Men and women , representing an atherogenic pattern Characteristic of Western Society diets.

- More-than 50% or nearly 105 Million American adults over 20 yrs of ago have total Cholesterol levels of 200 meldi or higher.
- about 1/grd are aware that they have Hypercholesteremia and 12./. Were on thoughy.
- The National Cholesterphan Education Program estimates patients have an optimal LDL that only 26./. Cholestral and the patients lage humber of ettoco curto-cated zon undertocated.

In the carter Scarrenger 1976-1980 -the number of Americans with a desirable blood A retrollession with

Coomgld) has osen to 49.1. from 45. R.R. Dist. Telangana.

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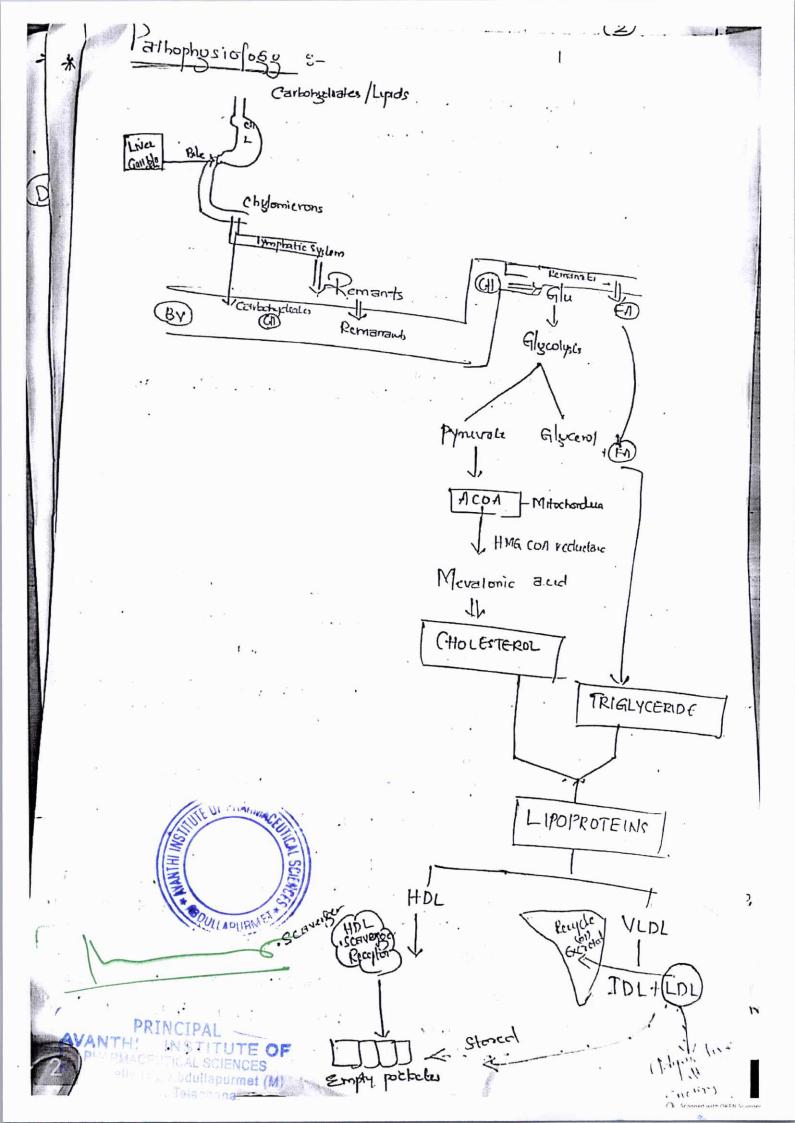
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Cholesterol, -laglyconder and phopholipids are to the blood stocam as complexes of lipid Lipoproleins. Elevated total and LDL Cholesterol and reduced HDL Cholosteral race accounted earth development of CHD. * The lipoproteins are Claserfeed into include Chylominons, Secondary -lami, the parmany -lams LDLI JDLI VLDL, etc. of Hyperlipidemia also exist and Several chip classes May elevate lead lovels. G: profestions, Thieredo divietici, Glueveorticula, 6. blocken ete. Clinical Fonting: Pancecablis + kpatosplecromegaly Ch. SOB due to Obere CAD. Hypertension Diabetes. Heart / cardiac oclased Complications * Medical Alichony Interview PHARMACEUTICAL SCIENCES
Gunthapally (V), Abduilapura et (M) Lipid Potile R.R. Dist. Telangana physical Grammation. abscence of Cardio. Vacular actated publishers. reatment & The step is Inhibition of 1) HMG CO.A. Reductor Inhibition . JIMG - CON Reductive * Atomastation, Pravastation, Simirastation, Lovastation, -Fluvastation, Rosuvastation etc. * These are Chalogs of HMG, the precumon Cholesterof and form Smortz afforty -for

Paulus status and Ellowastatus are More parent Cholestonis m lavering ayent.

The Increase in LDL reception: Depletion of intracellular Cholesterol causes the Cou to increase the number of specific con-Swipace LDL receptors that bind and internalize circulating LDL's. Thus The end result is reduction in plasma chotesterol iboth by lacesed Chaestrol synthesis and by increased Catabolism of LOL.

(B) Niarin (Nicotinie acid)

Niacto can reduce LDL levels by 10' to 20 percent and is the Most effective agent for increasing HDL levels.

* Niacin Can be used in Combination with status and a fixed - dosc Combination of Lovastatin and Long-acting neacen is available.

Mod: - Neacin strongly inhibits lypap lipolysis in adupose tiesue the primary producer of Circulating free fatty acids.

The liver normally to these circulating - fatty acids as a Major precursor thacylelycerol sympsis.

The Fibrales: Fenofibrate, Genfibrozil.

These are denvoting of fibric acid -that lower Serim trigity. to acylolycerol and incocess HDL levels.

peroximase politicoator actualed acceptor PPAR's

binding of drugs with PPARS, regulate the gene expocusion, in cohich -fibrate-Mediated Gene expression Ultimalely leads to decreased Ton Conc.

Bile acid Binding Rasine!

ex: Cholestypamine, Colestipol, Colesevelam.

These are anion-exchange resins that bind new charged bile acids and bile sats in hegativde Small intestine. The resin bile acid Complex is the feces, thus preventing the bile acid from returning to liver by enteroperation Circulation.

(- bsuption Onhibitori: holesterol

* Ezetimite; selectively inhibits intestinal absorption of dietary and bitiary Cholesterol in Small Ontestine, leading to a decourse in delivery of Intestinal Cholesterol to livee.

-> This causes a reduction of hepatic Cholesterol Stores and an Increase in Cleanaire of Choleston from block.

of Czatimide lowers LDL Cholestein by 17.1. and and it incocases HOL by 1-3-7.

Ta by 6.1.

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KATIONAL DRUG USE

- -> Definition
- -> Role of pharmacist
- Essential, drug Concept
- -) Rational drug formulations.

Definition & Rectional drug use can be defined as the usage of appropriate drug with proven Safety & efficacy for the right patient in the appropriate dose and dosage form at proper intervals of time at low Cost.

Criteria for Using Medicine :-

- Appropriate indications
- Appropriate oling
- -> Affordable
- Appropriate administration, dosage & duration
- -> Appropriate patient
- -> Appropriate patient information.

I mational use of Drugs:

- Self Medication, casy accessibility of drugs, rampoint usage medicines by the prescribers are some of the reasons for the Peratural usage of drugs.

3 types of mational use of drugs:

(a) Diagnosis - incompate examination, incomple communication (b) Prescription watack of documented med. Hutory

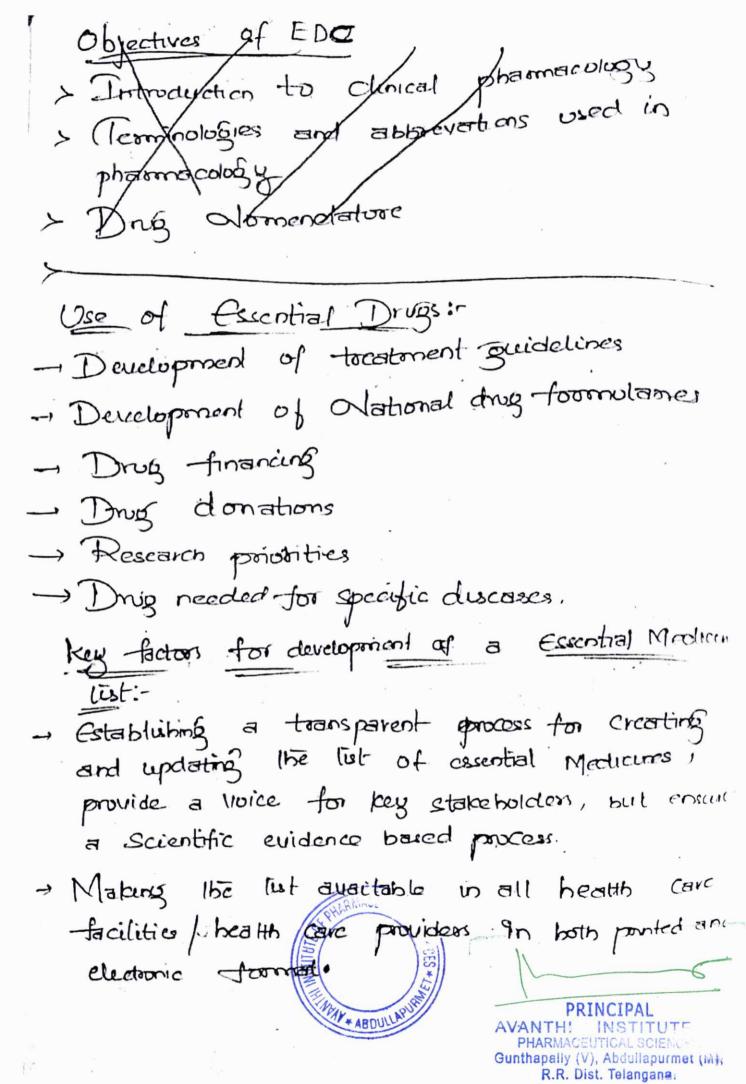
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resconplion : Dispension ! - under prescribing -> Wrong interpretation of 11.4 - Incorrect prescribing - Reliberal of wood ingration. - Getrausgent prescribing -> Inaccurate Country, company > Over prescribing dies or priving - Multiple presenting -> Packaging - pour quality packaging mil-* Rational drug use can be promoted by practicure the concept of essential drugs, providerly telequali training, * Reasons for imational use of drug :-- to Unbiased information -> Blindly believing the Medical representatives who are not properly trained Some of the drops which are investionally und D'ASPIRIN - OTC Medication most Commonly used. Irrational use anses due to over dosc, which will Course 61 bleeding & olderation, luice toxility &) SEDATIVES AND HYPNOTICS :- Col Diazopam, Alpradlem presembed for incomnia - I trationally used due to wage of these, even also In almos dependence Completion of ragimen gesults or addiction. UBSTACLES IN RDG 6-- precioiber gets benifiledounty proconbing Move drugs. - tasy availability of schedule H drugs > No proper teaming or education to the prescriber

Measures into promote RDU + Educational Measures - Inform Regulatory Mensures - Market or practice control - Managerial Measures - Information systems (stas Drug supply / lab capacity Drug usc Indicators & Presembling Indicators Patient Care Indicator -> Aug. Consultation time -> Ava no of drugs per - Aug dispersing time · prescriptum -> pt. knowdedge of connect - 1. of drugs prescribed dosope by generic names - 1. time an antibiotic is prescribed * facility Indicators Evallability of key drags - Availability of copy of essential divigs list or formutary Role of Pharmacist in RDU &-- Legally pharmacist is not authorized to prescribe but can play a major vole in promoting rational drug use. the pharmacist involves in selection and procurement of alwas, the down should be accordance with resential drug concept & Cost effectively Montaine Medicino: _scential PRINCIPAL INSTITUTE (PHARMACEUTICAL SCIENCES Gunthapeth (V), Abdullapurmet (M), Tist. Telangana

-) Essential Medicines are those that satisfy the popula.
- on efficacy safely and comparative cost-
- The essential medicine list contains limited cost effective and sofe rejedicines, but the open pharmacuitical market is flooded with large number of medicines many of which are of doubtful yalve.
- The essential medicines concept has been accepted world wide as a powerful tool.
 to promote health equility.
- * Rational dwg townulations
- proper closing
- Solubility

Essential drug Concept: With introduced the EDC
-> Those drugs that satisfy the priomity of heathcare needs of the population
Selection on the basis of * public health relevance * Evidence on efficacy & Safely * Composative cost effectiveness
- Should be available within the context of functioning health systems:
> At all times > In adequate amounts > In appropriate dodge forms > In appropriate dodge forms
> With assured quality & > With adequate information > At an affordable price to Individual & Community
Doug name
* Dosage strength i Dosage strength includes Single formulations Therefore Therefore the strength on the strength of the st
- fixed drugs are included to be bigger
> Anti- (Subercular Agents > Anti- (Subercular Agents > Anti- (Subercular Agents > Anti- (Subercular Agents) PRINCIPAL AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES Gunthapally (V), Abdullagumet (M), R.R. Die Generalienen



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Hazards

- 1. Ineffective & Unsafe tocatment
 - > over tocatonent of mild illness
 - > Onadequate treatment of serious illness
- . Podongation of 911ness
- . Distress & harm to patient

Increase the cost of toeatment

Increased drug resistance - misuse of ant

infective drugs

1 ADE

1 Morbidity and Mortal



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-: Glectsophusiológu of I-lart:
-: 91ectsophos10000 01 1- 0011.
The Cardina Call at D.
10 The Cardioc Cell at Rest:
Tons move across cell membranes in response to
electrical and Concentration gractionts.
12x The Olomal Cardiac cell at rest mainlains a
transmembrane melcotial annovamely and
1* The brackent is established by pumps, especially the
Nat, kt - ATPase and fixed anionic charges combin
² Cells.
* Nat Channels I which allow Nat to move along
3 this gradient, are closed at negative transmembrance
(Diania)
egen Conformation at negative potentials. Hence
5 kt can move through these Channels across
The Cell membrane at negative potentials.
* Nat Channel Opening Initiates he action Pakentials-
A
If an atrial or Ventincular cell of rest is P
CI- DUNELL BLOOVE & (MESHOTO POPENCIAL)
Channel proteins change Conformation from the
CLOSED (Vesting) state to the OPEN (Conducting) state, Ellowing up to 107 Nat ions per Socond to enter
each cell and Moving the transmembrane potential
to words +65 m V. This pattern of Nation Movement
lasts only about a Millisection , after which the Mat Channe
proteun rapidly charges conformation to from open to an
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PRINCIPAL AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES
LUMMANDED HOVE BOTH AND

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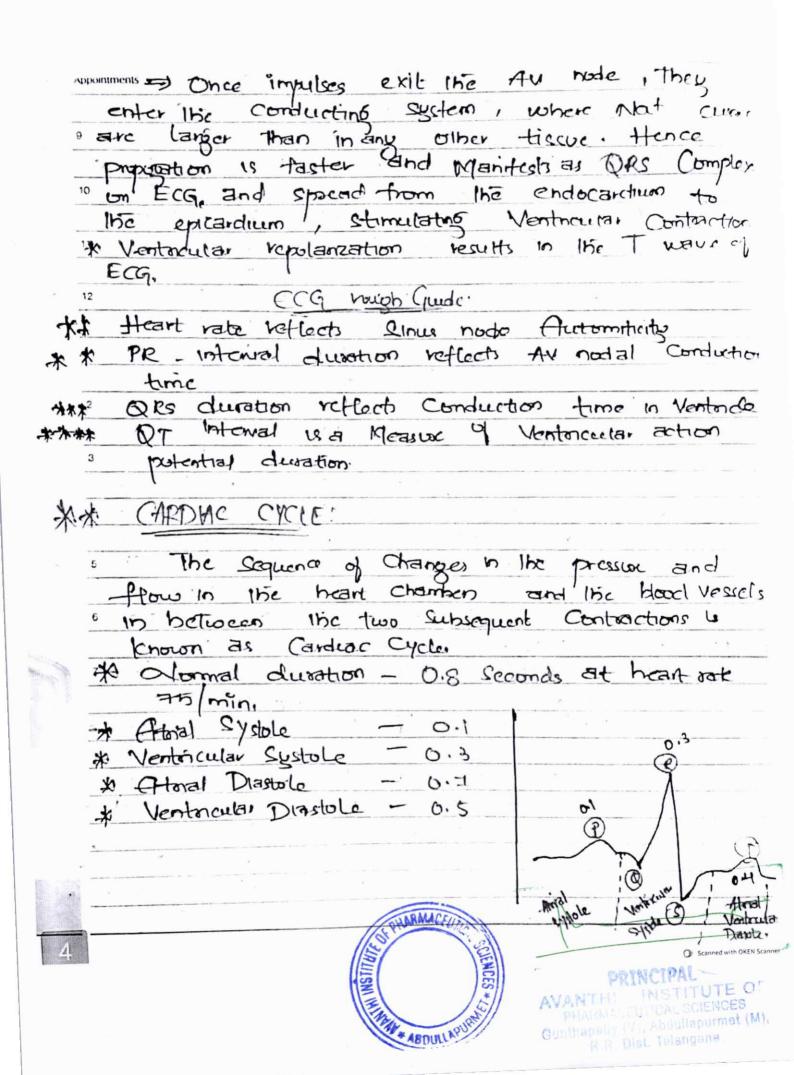
Changes transmembrane potential generated by 11. " inward Nat. current produce, in turn of other Channels. System is cell from the epicarclium depotainzed by the Nat Current, "transient outward in an outward or vegodan change regults Conformation to enter 80 open 12 State: Since the transmembrane potential at the phase o' is positive, outward Channels results in an outward toansient or Repotenzing " kt convent which Contabilities 1; Transient outward kil chamds inactive rapidly plateau of a normal lha phase - 2" potential , inward depotanzing currents primarily through kt chamels Potential Among (ardiac Cells . Thetion The action potential and life currents must be Modified for Certain Cell Types. result of , Vagal stimulation, which further At Atrial action potentials Intraccular flomeostasis :oun enance With each action With each action potential, the interior (cours Nat ions or loses kt ions. An ATP : requiring Not- kt exchange Mechanism is activotedicture most calls to Maintain AVANTH

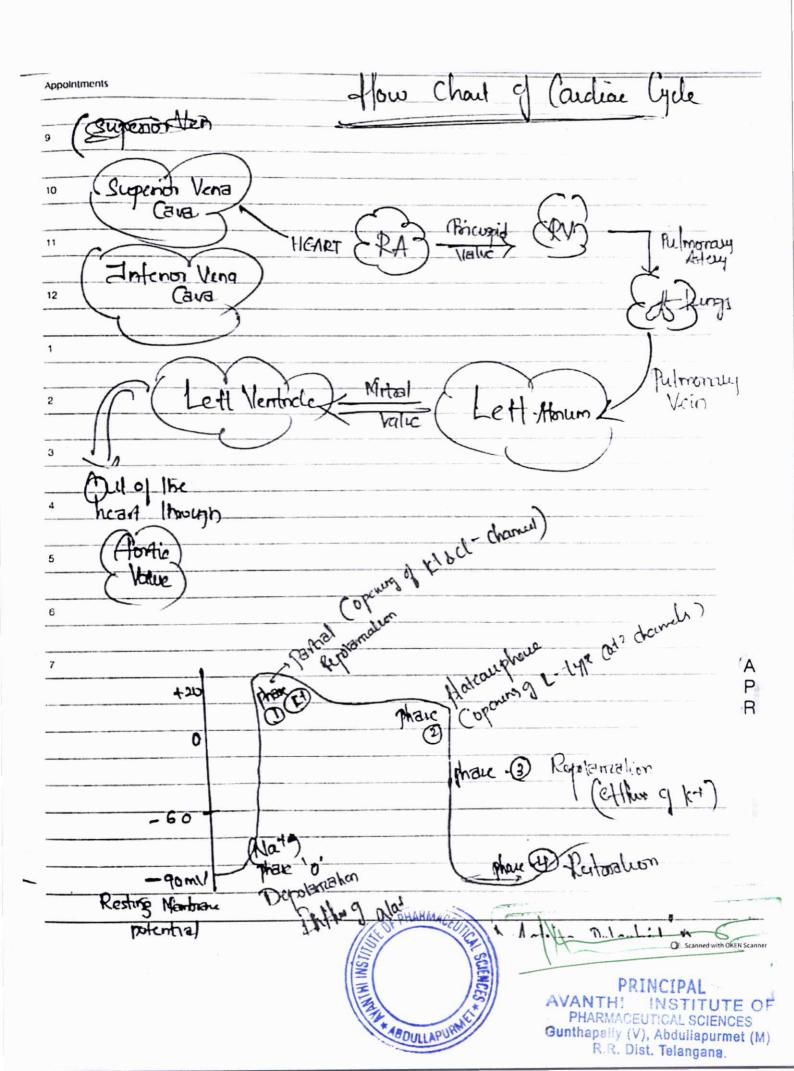
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R.R. Dist. Telangana

appointments This (Sodium) Nat, k1- ATPase extrades \$ 1000 for every 2 kt 1000 Shuttled from this extenor of the cell to interior Normally , intracellular Cat 2 13 Maintained 10 At VERY 1000 Yours. * The increase in Intracellular cate then trippers Cats dependent Contractile process. * Removal of intracellular care occur by both an ATP - dependent Cate pump and an electrogram Nat = Cat2 exchange Mechanism on the coll Surface which exchanges 3 Nat long from the Surface , which exteñor for each Cate ion extruded. Propagation and the Electrocarchiagram: Normal Cardiac impulses Originate in the sinus · node. Impulse propogation in the heart depends on two factors (1) the Magnitude of the depolaring Current & (11) Geometric Cell Cell electrical Commercion Cardiac Cells are relatively long and thin and Coupled - Imough specialized gap Junction 'at - lineir ends.) - Once impulses leave the Sinus node, they A proposate rapidly throughout the atria resulting in atrial systole and the P wave of the surface of > Propogation slavs Markedly through the AV node, where the inward current is Much smaller than Nat current in atria or Ventocics. > This Conduction. delay allows the atrial Contaction Mentaicle 1thereby Optimizing to propel blood into the autput. ST PHARMACEUTICA

> AVANTH! PHARMAGEU

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CONGESTIVE HEART FAILURE CONGESTIVE CARDIAC FAILURE (CCF) DEFINITION .- CHF. is referred as a physiologic which of the whearton is lunable to pump enaigh The metabolic needs of the body exercise lover though adequate. > The name CHF & CCF doesn't mean heart has actually or stopped but Mean one or More Chambers of heart has failed to leep up with the Volume blood flowing through there. THE is a serious, progressive Condition that is usually chronic and can be life threatening. > Failure Could begin on the LEFT of RIGHT SIDE both Sides may fail at the of your heart or FAILURE Same time [BIVENTRICULAR HEART DIENUIS Superior Vina cova RN LH R. A. DIST O Scanned with OKEN Sci

SYSTOLIC DYSFUNCTION (D)

[Reduced ejection fraction (KEF)]

-) Heart Muscles are too weak, -the Ventindes stretch out (enlarge, floppy, dilated) and failed to Contract efficiently. less blood is pumped out.

DIASTOLIC DYSFUNCTION

-> Preserved ejection Praction (pET)

Heart Muscles become stiff -thick impid, inclustic so, that they no longer fill properly (Can not rebx properly dum Oleastola) less blood in Vin - less blood to body during Contraction.

Ejection Fraction: Amount of blood being pumped out of the leff Ventorile each time it Contracts. (Shows how well your Ventocles are pumping.

Normal - Ef = Stroke Volume?

Normal range is 50-70%

Causes of CHF

Systolic dysfunction

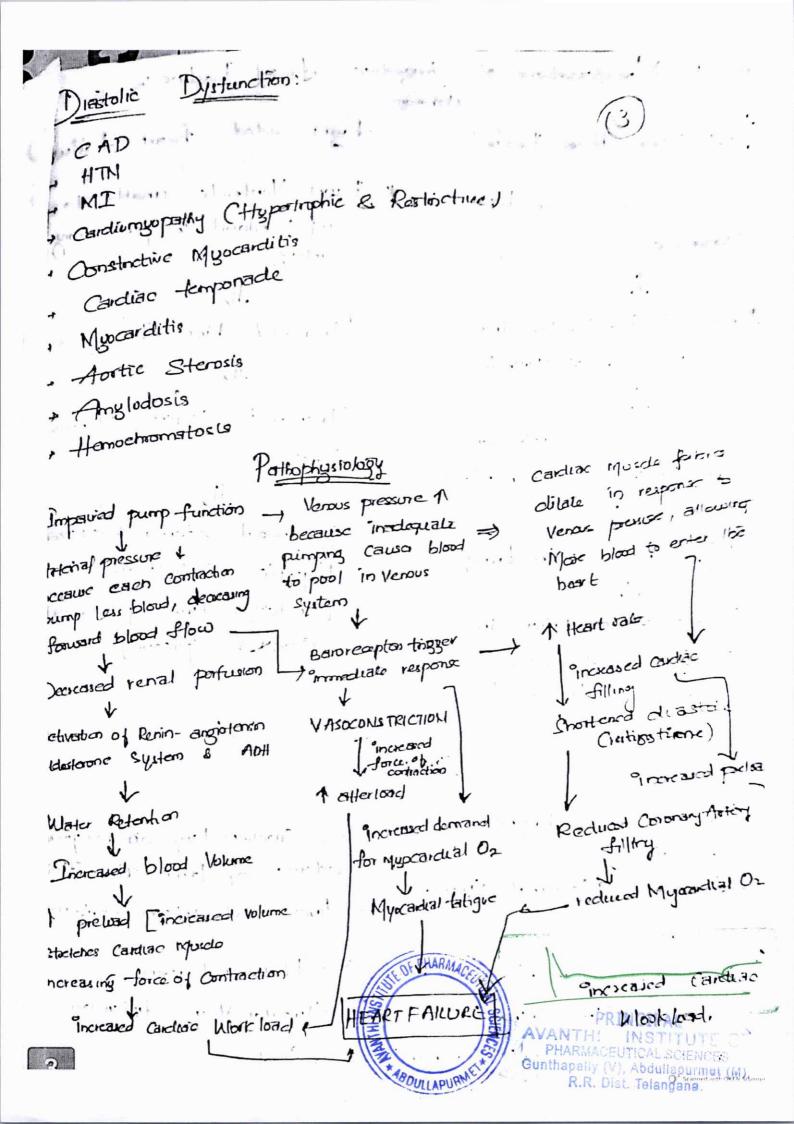
- Ischemic Heart duese
- -> Hypertention
- Large Satt intake
- Diabete
- Mycardelis
- over weight & Smoke alcohol, Cocaine
- Heart Value disease
- Dilated Carcliomy opathy.

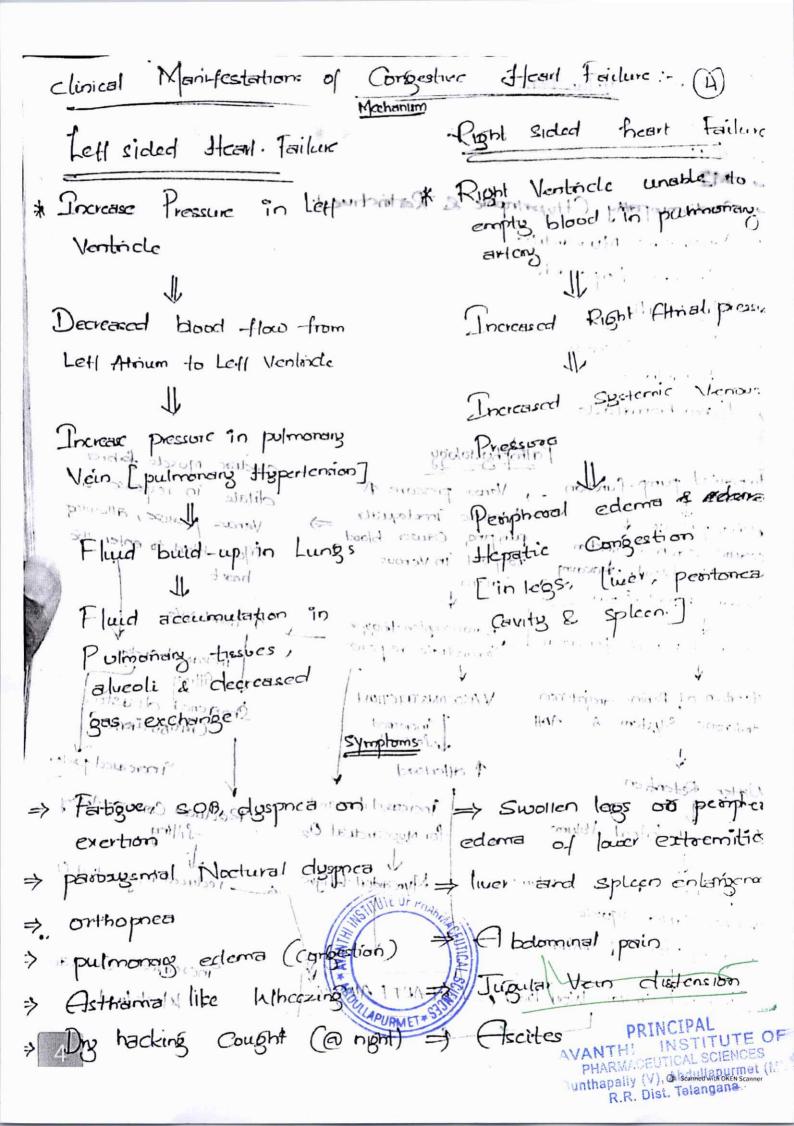
(Abnormal Wearl Sohyllom) Arohythmias



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pale or bluish skin (5) -> Names , Vomiting, Expetite
bland the first butternia
Il last Inomple , Nestleshess & Mealons, Jaho
* Classification of CHF
classification of CHF :- class I = Patients in -1 this Calcoons feel no symptoms & can
perform ordinary process activities contract and times
Class-II :- Ordinary physical activity somewhat limited
Ex: Long distance walking, climbing, two flights al stairs)
ale amptons at vest
duprica with Moderate
B: short distance walting, Climbing one flight of stairs)
G: short distance walters
Class-IV Symptoms of Cardiac insufficiency, with any physica
actuity or even at rest.
Duspace at vest with very little exertion.
The state of the s
Dragnostie Evaluations of CHI
> Medical History & physical examination
> Medical History & Physica Multhunstitute of PRINCIPAL PHARMACEUTICAL SCIENCES Gunthapally (V), Abdulo purmet of My, R.R. Dist. Telangane.
Gunthapally (V), Abdult purmet (Mg)

Netroplyceon

R.R. Dist. Telangana.

Sublingual.

Hydralalazine 10-25 mg Lvry shir; 10

Isosoorbide din Heat 40mg BD 10

Morphine suphate 50mg Av IV

side-Attent: Rapid-haut beat, Heatt palpitahan. Fluid retention

Digitalis:

Diguxin

125 - 500 mcg

Dizzineus, Diarrhoca, Mental disturbances.

ISTITUTE OF PHANAGE WILL A STUMMENT & STUMME

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CONJUNCTIVITIS - or granked will Conjunctivitis refers to the inflammation This carjunctive. to organization Allean beinaquie on chimpic. Joseph Con. Conjunctivities on is a classified hinto the following Illis Non-inpleations · VSORDIE biratorial T. Infections of man By allergens 15dm553(f. (1) Vival Conjunctivitis (Bxins Chernicals (Round (military)) (ii) Baclenal reconjunctivities Newle Chronic Hyper acute Acute Conjunctivities 1. 295 - He most riporchalent al eye rednos 1, and ducharge. backna, Vinses, can result from -1 Infectious Conjunctivitis and parasites Conjunctivitis -1 The Must Common bo pathogen being Adenovirus and Enloro visus samplex Herpes Zore. Collegenes for common allanter Children Limitis is more Common allanter Children Herpes Zoster, anjunctivities in him than to adults, and the palmoens in regions ble for bacterial Conjunctivitis Valy 1 depending - Staphylococcal aliveus sestococcus preumoniae s influenzacionagre Theirmost, Common in V of demophilus actults, while to children the disease, more often Caused by 11. influence 3. prieromonice: etc. Bonowhocae, Causes Include Deisseria pacicnal Olber Mullia -trachomatic Gunthapally (V), Abdubliaphinant (1.

R.R. Dist. Telangana:

EPIDEMIOLOGY: - The Prevalence of Conjunctivities Vanion 100 and Sex eds. The highest rates of diagnoss our dumme children less than a years of age, with the highest incidence occur ing between the diges of o and it godis! Allergie l'Odthune Vitas is the most frequent causes of Conjunctivitin affecting 15 to 40 / major hall population piants is most commonly observed in springulated summer. Badeiral Conjunctivitis rates one highest chrom December to apail. -> Baclerial Conjunctivitis -> 40 / prevalence in in 4 Adults > 80:/ prevalence in - Padiations -> Visal Conjunctivitis tom ->1- 36/1/1/prevalence in Adutts Prevalence of in Pediatines Allegic Conjunctivitis 2.1. prevalence in pectiations! -> Allagic Conjunctivitis 2.1. Results par surivered good uspilled nomines half office. PATHOPHYSIOLOGY - Confunction of the cause of -this of inflammation can be due to infectious (perthogens gong non- infectious portants. The reduct of alting issitati is injection or dilation of the Conjunctival Vessels; This results on the colosio redness wand eclema of the Conjunctiva: The entire! Conjunctiva is involved, and like is often grachands as I was the quality of Idi depending on the Quantive about 1 31 3 oderoung 1 months in the

lathogenesis of Linfective Conjunctivitis: Infective Conjunctivities is an injection, of the Conjunctiva either aund by Vivers on bacteria such as aderovivus, staphylococous aures, Streptococcus apprehimoniae and Hangphilus Influenzae spaced , Infective Conjunctivities is usually -) Direct Contact with the infected persons eye drainage or drainage from the possons aughtinished on morn runny nose. -, Contact with the infected persons fingers, hands or objects. Pathogenesis of Neonatal Conjunctivitismes for Is occurring in a newborn during the first month of life and often known as Ophthalmia, nothernous of book and the smoth neonatorum. Jeonatal Comunicipitis is mainly caused by sexually transmitted dueses agents' Such squas or trachomatis Sometimes of ilcherg and licenses, bound for implant + The recognized mounter se of transmission of organis newborns include: during Waging Birth Ciendomal Canal during Infected birth to delivery) contrained to Europhy of Transmembrane Transmission Englishe Chifedian - (Pransplacental transmission (1) to frois the clinfection Pathogenesis of Altergic Conjunctivitis:-Development of allergie and onjunctivitis is the result of Object Timity personsitivity mention in the properties . Allernic the immunosobbutus E (IBE) Mediate Conjunctivitie 1:1's Caused by to environmental allergens horses dist AVAINTHISTITUTE OF CIENCE CHARMACEUTICAL SCIENCES DELIVE WAVE DE

IgE Mediated Hyperconsitivity reaction precipitated by Small air borne allergens Local Mast Cell defrantiation was the color of the color Release of the Chemical of thistamine, Chemolactic facto mediators in the contract of the many of the many a Contact with the Infected powers through to anythin Julginingition Signs & Symptom into medanon is of common of 511 Bacterial: Symptoms of redness and foreign bely Sensation, white - Yelbub purplent of Mucopurulant discharge, infrequently preaudicular by purplent of Mucopurulant discharge, infrequently Vival: - Symptoms of itching and teaming, watery discharge terder preaudicular lymphaclenopathy, Blumng or Boilly of feel of regerif raisely photophobia etc. Allergic: - Symptoms of Fetching on burning history allegies , water discharg, edematous eyelids & No preauticital Alimpiaderopathy in the mand. Internique it Diagnostic (Pests:--> Slit Lamp Exam - serds a Thin beam of light e fuminer - Visual Fruity, (lests in Checks thow well a pt can read letters or symbols Eye Curture Doctor Collects Sample of Cells on the Inside of eyelide with a Collog swap Sends to labringipal

PHARMACOLOGICAL PREATMENT: Anti- Itistamines: - Block the action of histamine, a chemical that is sproduced bohen, the body detects allergen. This helps in preventing giffarmation, is itching & discomfort. Side-Effects : Named, Vomiting; dizziness, dry Mouth of Blomed किंदिने क्षेत्राप्रे हिन्द्रांति भूनेक्द्रान्तान अन Uluion When Days Don' on To N'SAIDS - Reduce the inflammation in Store Rediger as well Subsequently necessas es election gitterupsedus? When applied also Causes burning Sensation, but stented etamized fut they ansmitted 3 Clopical Corticosterads: - Reduce inflammation singlesse signatural in Indipropriet and Side - effectives of Blumed I william, I in Indipropriet and between stop matrices. Preventing the abody, from Releasing historine during an allergic reaction to Myocordial cells No significant side - effects. Inhibits the ence bacterial DNV 1/233 gare & Coborgones are Ilin 15 15 1600 Promis 14/14/05 20193 responsible to bacteral DNM. replication. NSTITUTE OF PHASE Masward arterd is from Mic Sum continues con in PRINCIPAL ? CITY AVANTHI INSTITUTE OF Gunthapally (V), Abdullapurmet (M). المراد على المراد المر

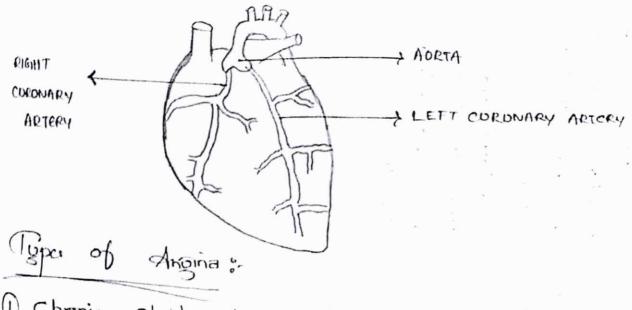
Angina Pectoris: / ISCHEMIC CHEST PAIN: (1)

perinition: - Angina pectoris latin phrase strangling in the chest Angina is a clinical synchrome characterized by episocles of Pain or pressure in the Centre of the chest just behind .

We breast bone.

blood (hence 02) as it needs because of hamowood or blocked coronary blood vessels.

Angina is a Symptom of a Condition Called Myocardial Ischemia.



- 1) Chronic stable Angina
- (1) Unstable Angma
- (3) Vainant Angina



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HEONIC STABLE ANGINA ANGUER DEMAND ANGUNA

UNSTABLE ANGINA / THROMBUS SUPPLY AND SOUTH ISCHMIA

VARIANT ANGINA. / PRINZ METAL SUPPLY STAGIOGA ISCIENTA

arienes due to alherosderosis.

(lissue become ischemic Particularly dunns times of increased to demand Physical exertion, large meal, emotional stress

Lasts less than 5 min Relieved by rest Medication

namowing of Commany > Cawal by formation and dissolution of a blood clot (Hombus) with in a Coronary HHERY.

> - Symptoms Worse, Science prin last longer, occur at rest , not relieved by nittouglyccom.

- Results from Coronary Vasospasm - cohich -lemporarily reduces Coronary blood flow.

4 (motional stess dysfunctional Coronary Vascular entothelium occurs during night - or rest



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CAUSES AND RISK FACTORS OF Ag , Women >55 , Men >45 Atherosclerusis Smoking, Obesity , DM High BP High blood Cholesterol or -topplyconde Excess intate of fat a Cating a heavy meal Sedentary life style or overwood (motional stoess family History of CAD Blocked artery Coronary Artery Spasm Microvascular Constaction - PATHOPHYSIOLDGY :-Vasospasm, fixed stenosis, Coronary thrombosis Insufficient Coronary blood flow Oz Supply to meet an increased myocarchium demar Need to of 02 exceeds the supply Decreased Oz Supply the offerend dates Myocardial Stimulation of pain AVANTH INSTITUTE OF PHARMACEUTICAL SOME TENEDESONIE

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C. and cumplimes of depines:
D 122100,
and descontant
- Squeezing / pressure heaviness
- limbtos, busning,
O-might in the
behind the breast
- Paio Can spread to Jaw, am,
Shoulder, neck, upper du
even -keth or back
-> Can last for 1 to 15min
Complication!
* Heavi Attack
Diagnostic Evoluations of Argina
Diagnost w [Tlectrocardicgram]
- EKG ECG [Electrocardicgram]
- Stress test
- Echocardiogram
Chest. X-day
- Coronal audiodistry
MRI, CT-SCON PRINCIPAL AVANTHI INSTITUTE
PRINCIPAL AVANTHI INSTITUTE PHARMACEUTICAL SCIENCE Gunthapally (V), Abdullapurmet (m)) R.R. Dist, Telangana
11011101110110
Bood test - Farts, Cholesteral, Carolic Consymes (Tropomis)
CK-MB, Myoglobin, C- reactive projection
Scanner with OKE's Scanner

Management of Angina: Shoot duration (catalogual)
Intermediate (boat) Nitrates - Nitrosycanin -Lastern Long from (toursdomat) SE: Heretiche .. bluned varion of 441 Chy Mouth . * I wise B and Anti-coagulants: Aspino, Margoritad 162-3215 mg Heparan us are multin 600 kg 40000 Clabigabool - send ago Aldeminal pain . . 11. Beta blockers 1 operator Calcium: Channel blockers . his depuis - I amo us -Amloclepine - 5mg SE' Constipation : stating Alerrastation | lama lamound aceuts Choleston 1 St: feeling sight. .. Simrastatin - 20-4000g Head acte , stomach pain : Management of -Angina By pan . Subject Toronay Artcy - therectomy Percutaneous (Franklumina) Commany Angroplasty. a many less in the

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of Angina ! Vanagement (sub-lingual) routement frode Nitrates - Nitroglycovin -Intermediate (mal) Locatera Long term (transdomat) SET-Hardachie . and Anh-congretants: Aspino, Managoritad 162-325 mg Alebrania no manter took for down Hariatho Clasiques of residence Aldeminal poin Holysixolo | lowered to ab III. Beta blockers SE: fatigue, Metoprolo) loom po oD Initial dosc Maure 2 Alcoolol - Ding Iday 1 to looning daily aller durisheen feeling aid Alcoolol - Ding Iday 1 to looning daily aller Negodopino Calcium channel blockess : -Amloclepine - 5 mg SE' constipation fations. :- stating - Alexastation long lancound accupt Choleston 1 St: -feeling sigt Simiastation = 20. Mong Head ack , stomach pain Br. ban . Truscus Arters () the rectomy Percutancous (Franclumina) Commany Angroplasty. PRINCIPAL INSTITUTE OF AVANTH! PHARMACEUTICAL SCIENCES
Gunthapally (V), Addulapurmet (M), R.R. Dist. Telangana.

b	-: Management	બ	Angina	Pectons :-		Common	
ι.	NITRATES	Nitroglyca	നറ —	-Short durations	augema) D	Head who Bloned Vision N Mouth Name	A STATE OF THE STA
2.	ANTI-PLATELET/ ANTI-COAGULANTS		- 162 - 325 - Goulkg - 75 mg	mg	Headleiche -An		
	BETA BLOCKERS	Metapodol Alenolol .	- 100 mg -	po of Initial dex	increased yoto		hora,
4.	CALCIUM - CHANNEL BLOCKER				oc Jong po	Constipation,	Contractor Co.
	CHOLESTEROL LOWERING AGENTS	Statins -		Diltiazer	AVA	ache 6	A Or

Myocardial Infasction

DEFINITION: - MI refers to the process by which myocan tissues are permanantly destroyed in the region of heart, that are depoiled of an Inadequate Supply blood (Myocaidial Ischemia) breause, of an reduced Coronary blood flow, Subsequently necrosis. Myocardial tissue occurs.

MI or heart attack is the interestible damage Myocardial tissue Caused by prolonged Ischemia Hupoxia [lack of O2 Supply]

ETIOLOGY: TEM) : (replanting to more sin . com - Robaco, Smoking

- HITAIN Gender
- Drug abuse -> DN7

- Obesity hard to Tamily History of Ischaemic Heart

Alcohol wolfe grown FKD The Hall to more and

EPIDEMIOLOGY: - In inclustrial Gounties MI accounts

for 10-25% of all deaths.

- Incidence is higher in clarity people, about 5.1. occur Incidence is my a'ge thorn many

Males have higher wit.

Women during reproductive

have low risk

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2-6 / in avoid pople and 4-12 / in which pople.

Reasons for Blockade in Coronary Arteries:

(i) Atheroscleopsis: - Olheroscleopsis is the build-up of plaque of the artenes, plaque. Consists of cholestons, fatty substances ", waste products and Clot Mating Substance fibrin. As plaque Continues arteny walls, the artenes become namous and stiffing and limits of stops blood flow to y the Hours Muscles.

Embolus :- locked to and

A thombus is a solid mass of platelets and filesin southat forms locally in vessel! The Thrombus is formed When he clotting Mechanism is activated. This is Supposed to happen when there is an injury or at the site of an olderand atheroscientic plage As when there is a rupture in plaque, at that Site there is activation of Clotting factors, which leads to deposition of More amount of platetets.

(11) Embolus from Other PHARMACO Noormed Emboli, com The already

in Other Vessels, will -floupell and reaches the arterisullapural - POTENSARTH DETINSTOPPUTE O. 1/2

in the

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(S) normal blood flow in artones.

an Vasospasm: - Namuoino of arless is from a Vasospasm. Vasospasm occurs due to lium damage of arteries. tum damage of arteries.

- Nittoic Oxide and pristacyclin are not Secrede due to the damage of endothelium. As the are (lei Nitroc oride & pe are responsible for relaxation of Vessels), not secreted property leads to namabing of the arteries.

(V) Hemorrhage Amaemia:

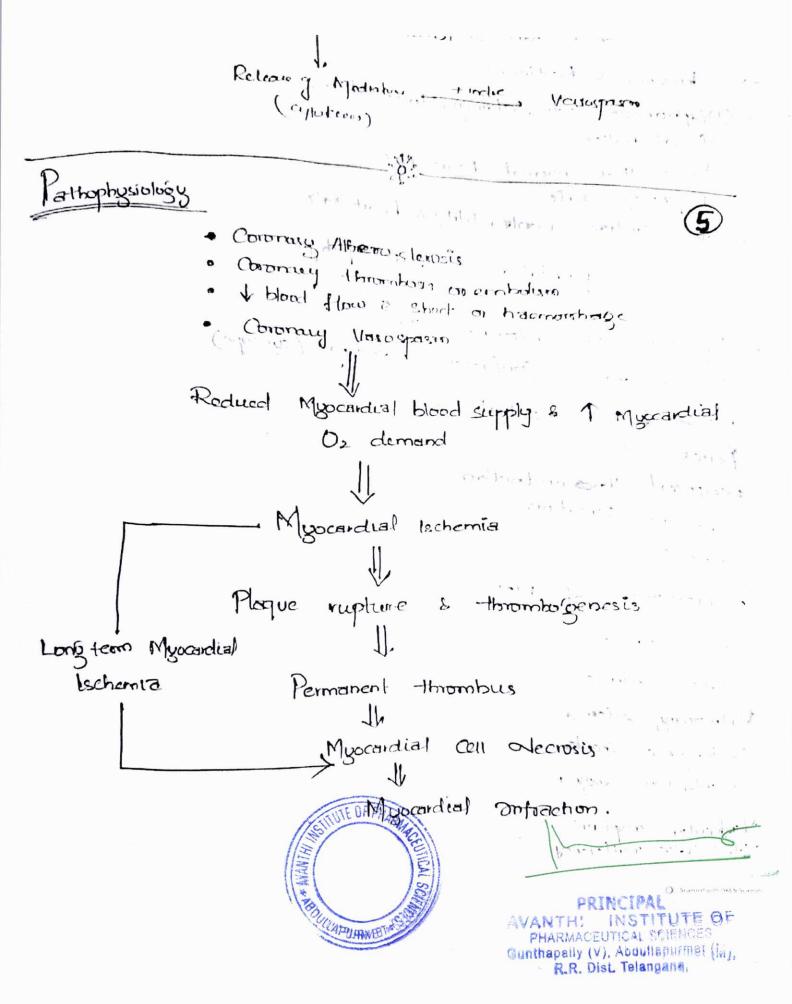
Due to internal tracema or injury then is loss of blood from the Vessels. As there is defeciet in blood supply, leads to a Condition ; Called Anemia.

Because of this Hernom hage and Anemia the airtenes and loads to MI. from the souther of southern to the south

- description - 1 ic. tours.

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Classification on Degree 110475 sithemagin in 101100y	(4)
i) Zone of infarction: Death of Ileast Muscle, Depointation & governible	Complete 02
(ii) Zone of injury :- Muscle Surrounding area (iii) Zone of Ischemia: Muscle Surrounding area	
Ischemic, Vlable.	* , , t
A Classification According to layers of Heart	Muscles Involved
(1) (Ransmural Infarction [STEMI]: Involves full	thickness of
Heart Muscle, complete Obstruction of Co	monary artery
(H) Sub · Endocardial (non - Aranimural) Infarction: (NS	TEMI) :
Involves Small area in the Qub-enducare the left Ventricle, Ventricular Septum or par tient simplest. I have basis of location of the	Aller Klowler
(1) Obstruction of Left anterior descending art	
(ii) Obstration of Circumflux arteny results in	posterior coall
(III) Thetack as	Inferior
Wall MIT.	PRINCIPAL INSTITUTE COMACEUTICAL SCIENCES INSTITUTE COMACEUTIC



Olinical Manifestations :

A Chescul Inscalnate - chest pain - not relicued to GTM

S tost torger than so offerenced ?

Conneces & Restleaners

Disposesis , cool, clamy, Moist stin, facial patter

faster than pound heart rate &

respustory pate Candine Contractilety & beart water

Dyspace palphations, extreme fertique

Epigastric or applament ductors and friend of

Confusion, familying (syneape) Dis opentation,

Course Uponièce dutyel- 1-11 min all 1

Fever

- peoples de Masoconstinction

Sensation chocking

NEV

empleations : of MT

=> Dusohythmias

Heart facture

-> Pulmonary edoma

=> Cardiogenic shade

-> Post interction aggina

=> Vantocular nuptions

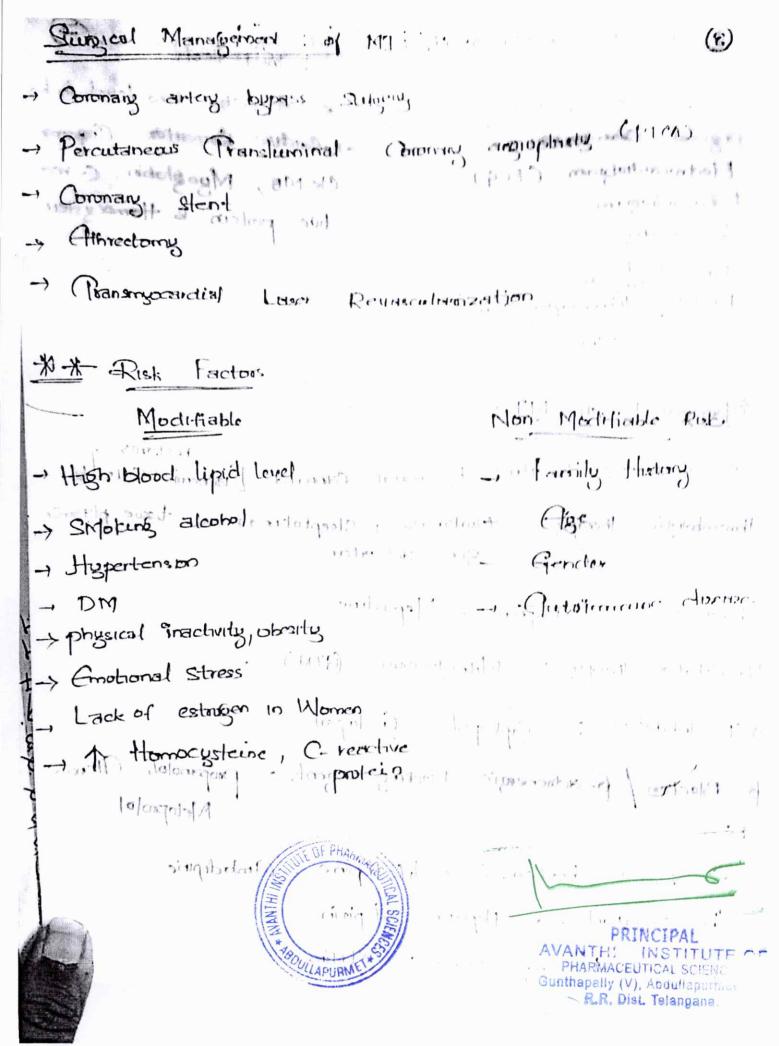
-> Mitall Valve insufficiency

=> - Cheuruson.

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Disgnorbe Evaluations of MI	Blood tests
a trival Madical History	
Detailed Medical History	- Tots ; Cholesterol level is him.
physical Examination	- Cardiac biomarico - (Proposition)
Electrocardings (C C (G)	CK-MB, Mgoglobin, C. roac
Agiography	the protein & Homocystein
The state of t	thre protein & Homocystein
- Position Romography scan	i con l'en monte se
-> CT Scan & MRI	
	continued for in the
* Management Harm MI	Shire Treat and a
· · · · · · · · · · · · · · · · · · ·	restores 7
Do thorapy : the litres by nasal	Cancula Dischemic Cells 1 to
- Thrombolytic - therapy :- Urokinase i	Stoeptokenaliens, tissue plagnin
- Analgesics mumi Morphine, Mepred	line throater wheelers it
- Vasadulata therapy :- Nitroglyce oin	
Australia listalia	The state of the s
ACE 90hibitoss: Captopail, Con	alapan.
B. Blocken / B. adocnessic blocking	abents :- Dropanolol, Altero
+ B. Blocken / B. adocnessic Discussion	Molarcolpl
	١٠١٥هـ (١٥٠٥)
	tipine, Ambdipine
- Cat channel blockers: Wifec	
-> Anti-congulants -> Algano	prioring
-> Cholesterol Lavenra	Stating
- Cholestorol lavents 3000	PRINCIPAL
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Appointments Prescribing (juidelines For Paedicators
Paediatocs is the branch of Medicine dealing with the development, diseases and disorder of Medicine dealing to Children. Children. Children. Neonate - first 30 days of life Variant - from I Month to 1 year. Child - from 1 year to 12 years.
Growth and development are important inducators of Childs general well-being. The Weight is one of the Most Widely used inducators of Grown. The Height is another tool * For infants upto 2 years of age, Head " arounterance is also useful parameter to Mondar. General Prescribing (juidelines for Pacetiators:
Children and particularly neonates, detter from adults in their response to drugs.
1) ORAL ARSDEPTION &
July Variable gastric and intestinal transit time: In young intents, gastric emptying time is mubited and only approaches exclust values at ancied 6
PRINCIPAL PRINCIPAL AVANTH! INSTITUTE CT PHARMACEUTICAL SCIENCES Gunthapally (V), Abduliapurmet (M), R.R. Dist. Telangana.

appointments not brach adult lalves until the Sectord of life. Other tactors: GI contents , posture, disease states and Theoapeutic interventions can also affect the absorption process. "DISTRIBUTION 5 (1) Increased total body water in eight, the total body extencential fluid Volume decocases Water and with increasing age. Neonates require higher closes of water soluble drops , than adults (11) Decreased Plasma Prolein Birding: Plasma policin binding in neonate is recluded as a result of low Levels of alkumin and globuling and an in levels in neonates may displace dross from albumin. (3) · METABOLISM :-* Grzyme Systems mature at different times and May be absent at birth, or present in considerably reduced amounts * AHered Melabolic pathodys mayor exist for Some dugs. * Melabolic rate increases dramatically in children and is often greater than adults. EXCRETION :-Complete Maturation of renot function is not reached 6-8 Months

OULLAPURME

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Appointment Factors (Allecting Paedentry Ihrny; Most drops are collect Metabolized by live or eliminate by kidney Hepatic and found always are expected to decocor the dosage requirements. ** CYSTIC FIBROUS require lawy doors of Country doors to " achieve therapeutic Concentrations. LINER TASCASC : Liver is the Main organ for drip Monatolism drug Clearance usually is decreard in patients, with the theorem of the live depends of the live depends of the liver depends to extract drug from the blood, and both type and Severity of liver disease. of liver disease. divided into two categories. Such chops include Mosphine, Meperidine, Lidocaine proprianosof. Clearance of these drugs is allected by Hepatic Houd flow. A decreased Hyatic Hour flow in prescence of duease States as Clarbosis & CHF is expected to decrease the Cleanance of drugs with high extraction satios. Low Gotaction ratio (60.2), theophylline, Chlosomphenics; and Acetaminophen is influenced by Hepatoccilular -function. RENAL DISEASE : Remail failure decreases the dange important changes like Aminostycoudes, vale of elimination is altrectly proportional to the

GreekxL SO

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* 1 - Child length in Continuetes

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requirements of dwgs eliminated by the kidney. For money important drugs like Aminoglycoudes, rate of elimination is proportional to GFR. * K. Constant GER = KXL / S.C. # L - Child length in Continueter M T W T F S S 30 31 12 3 4 6 0 7 8 9 10 11 12 13 14 16 16 17 18 19 20 21 22 23 24 25 26 27 28 20 Wednesday 2022 Day 116 255 Appointments Factors (- Hecting) Paedatox Therapy ;-Most drops are either Metabolized by liver or eliminated by kidney Hepatic and Ronal always are expected 10 to decocase the desage requirements. ** CYSTIC FIBROSIS require larger doses of Cortain drug; to dehieve therapeutic Concentrations. LIVER DISCASC & Liver is the Main organ for dwg Kplatolism dug clearance usually is decreard in patients Hepatic duesse. Drug Metabolism by the lives deponds on Complex interactions among Hepatic blood flow, ability of the liver depends to extract drug from the blood, drug binding in the blood and both type and Severity of liver disease. On the basis of Hepatic Extraction, drugs can be divided into two calegories. with High Hepatic extraction ratio (0.7) Such dwas include Morphine, Meperidine, Lidocaine, proprianosof. Clearance of these drugs is affected by Hepatic blood flow. A decreased Hepatic blood flow in prescence of duease States as Clarbosis & (HF expected to decrease the Clearance of drops with high cetaction datios. Low Gotaction ratio (60.2), theophylline, Chloramphenica and Acetaminophen is influenced by Hepatoccilular -function. E OF PHARA Aserral Failure Accreases the dosage KENAL 1) IS EASE : distreminated by the kidney, for mony drugs like Amiroglycosides, vale of elimination is PRINCIPAL GUF BURM of peropalance * KANTENONS HARTITUTE OF AGENCIES AGENCIES THE PHARMACEUTICAL SCIENCES AGENCIES THE PROPERTY OF THE PROPERTY O KXL R.R. Dist. Telangana.

Appointments CYSTIC FIBRUSIS & The Pathients with cystic Fibrosis require increased doins of Cortain drops. Description of Such drops as Gentamyorn.

- tobanyoin, Amikacin idicloracillin i piperacillin i booghylling 10 m patients with Cystic fibrasis Con Without This durasc. The Apparent Volume of distribution of Cortain dep;
Talso may be attend in Cystic -fibrais. ISSUES IN PACHITICIC DRUG THERAPY : Management: The pocualing killedom was the neonates did not expensence owing to inadequately developed neuroendoconse System and nerve pathway. * The basic Mechanism of pain perception in infants and children are Similar to those of adults except that pain impulse transmission in neonates occur primary along Islaw Conducting non-myelinated C-tibres raince than along Myelinaud A & Abres. In addition, less porception in non Myelmated Confincis -> In addition, less | precision in pain signal teamission the spinal cord and descending inhibitory neurotonsmitters are lacking. The result is that neonates and young infants may perceive pain more than older children or actults. Noute of -Administration & Drug Degimens Compliance in Christian influenced by the formulation, taste, appearance and ease of administration of a preparation. O Scanned with OKEN Scannie PRINCIPAL AVANTH! INSTITUTE OF

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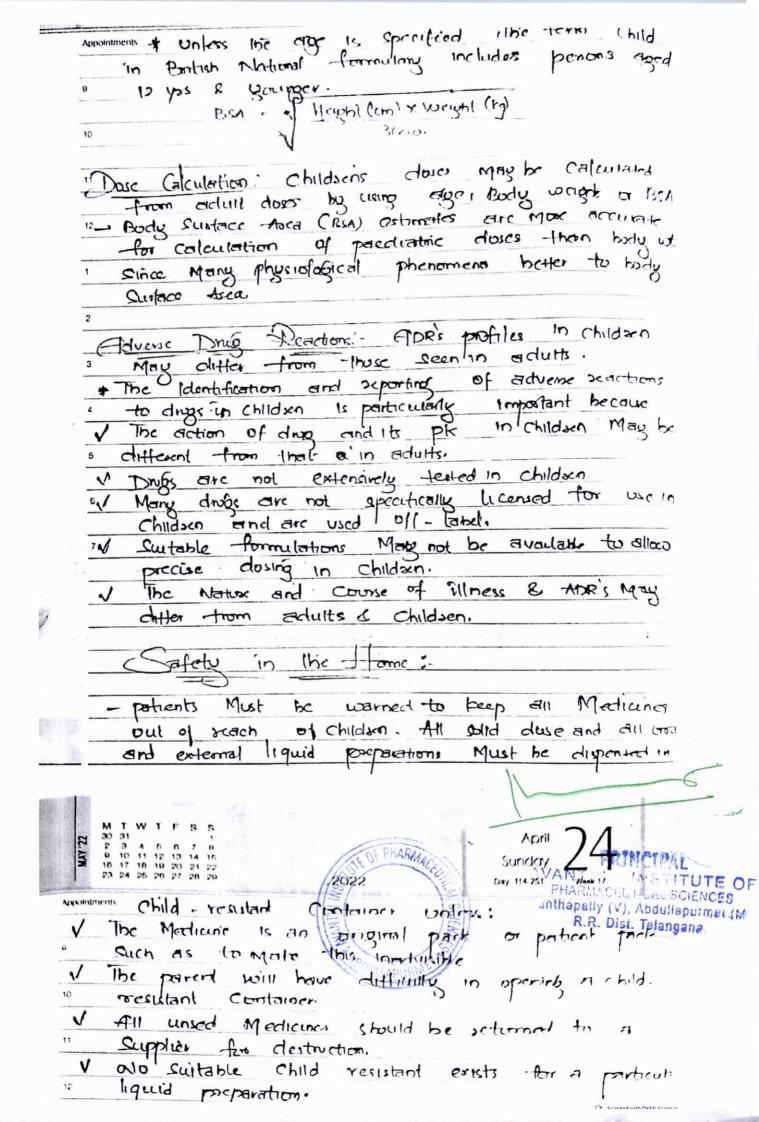
appointments - presented regimens should be tailord to the child's daily routine en Whenever possible like use of products which avoid the need for administration during achool house Should be avoided. When administration at school is unavoidable. Consideration Chould be given to presenting & are supplying the school time dose in Separate labelled Containers. Most schools will acquest wonten permission from parents to administer the Medicine. 2 Prescaption Intino s-> Inclusion of aigc is a legal requirement in the case of prescription - only Medicines for Children under 12 years of age - Although liquid preparations are particularly suitable

for children i they may contain Sugar Cohich

encourages dental decay.

Lugar free Mediences are preferred for long-team -tocatmed. When a prescription for liquid oral preparation is written and those ordered in Smaller than In an oool syringe will be supplied. Dosages :- paediatric does should be obtained from 2 parchator reference -tent When considering doug were in children, the follow Neonates, infant, Child, adukcent. Scanned with OKEN Scanner PRINCIPAL AVANTH! INSTITUTE OF

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PRESCRIBING GUIDEL regnancy - Refinancy is the fertilization and doublopmen of one or more offspring known as embryo / fetus, In pregnancy, there can be Multiple Gestations. The term embryo is used to describe the developing Offspring the first & weeks following conception -> Filtered drug pharmocotanetics during prograncy Can. influence dong Selection and dosing. -> Physiologic Charges during pregnancy typically result in charges in abcorption, protein - binding, distribution and elimination. REGNANCY SIGNS AND SYMPTOMS :--> The early Symptoms of pregnancy "include: * Fatigue and increased fraquency of usination # At approximately 6 weeks gestation, the pregna Women may experience Nauses and Vomiting, Commonly known as Morning sickness but may occur at any time of the day. * Names and Yamiting Usually resolve at 12-18 We Sestation. * Foetal Movement is detected in the Women's lower abdomen at 16 to 20 Wests of gastation. - Horoximately 280 dous (40 Meets 9 Months) Constitute the duration of promoney AVANTH: INSTITUTE PHARMACEUTICAL SCIENCE Gunthapally (V), Abdullapurmer (in-R.R. Dist. Telangana

of embryo or fetus beginning with the frat day of the last Marstrual period, which is about 2 weets prior to feotilization. PHARMACOKINIETICE FACTORS & > Drug absorption during prograncy may be aftered by delayed gastoic amptying and Vomiting & An Gaz increased Epistic pt may affect absorption of Week acids and bases. > Higher estruger and profesterone levels may after liver enzyme activity and 9ncrease elimination of Some drugs, but cause accumulation of others. > Maternal plasma Volume, cardiae output, and Elemenular fitteration increase. by 30/ to 50/ during prograncy, possibly lowering the plasm concentration of renally cleared drugs. > Body fait increases, thus volume of distribution of fat- soluble drugs man increase. > plasma albumin Concentrations decrease, thus volum of distribution of highly protein bound-drugs may increase. may increase. > The placenta is the organ of exchange between the Mother and februs for a number of Substance including drigs. Drig Molecular Weights affect Mol. Wt: < 500 daylons Cross Phracellegal Solehops

Cross Phracelegal Solehops

Cross Phracellegal Solehops

Cross Phracelegal Solehops

Cross Phracellegal Soleh Mot. Wt. 600 dattons cross More stoom 2 Mol vot: > 1000 Cours not Choss in significant smouth

> Lipophilie dwgs (to opiales and antibiotics) cross mon easily than water soluble divigs. > Certain protein - bound drops May achieve higher Concentrations in the fetus than in the. (3) ... Mother. DRUG SELECTION DURING PREGNANCY :v The incidence of . Congenital Mattermation 13 approximately 3-5./ and it is estimated that · 1./ of all birth difects are caused by Medication V (Advose fetal dwg effects depend on dosage, . route of administration, Con-Comitant exposure to other agents and stage of pregnance when the exposure occured. V Exposure of the fetus in the first 2 Weeks Effer conception' May have an "all or nothing Exposure alumns the period of agangenesis (18 to 60 days. post-Conception) May result In structural anomalies, G:- Methotoexate, Cyclophosphamide, diciny stilbestool, Thatidomide and certain anti-epileptincipals Exposure offer the point way result in bist blangana retardation , Chis or other abnormalities / death: MICAMIC .. ACE I's ... tetoripuline derivatives."

Principle. for Selecting Neducations. for the use during pregnancy include: V select drugs that have been just safely for perods. of . time v presonbe dosa at the lower end of the dosing V Eliminate non-essential Medication and discourage . Self Medication V. Aud Medications known to be harmful. - Adjust doses to optimize health of Momer while Minimizing asks to fetus. PRE - CONCEPTION PLANNING :-> Ingestion of folic acid by all Worsen of Childboaring potential should be encouraged, as it reduces the risk of neural tube defects in offsports. V Women at low risk should take 400 miles day through out the reproductive goods. V Women at high risk (Eg those, who take certain Server Medicolons) Should take 4 mg/dog. (PERACTOGENECITY 5- IS the ability to cause development tal aromailies in a: footog. Things which can cause developmental abnormalities. known as "PERATOGENS" and they include Viruses, Chemicals and badistion.

Can Co
> Subtanas Will I cratogenic effect
> Subtances with Icratogenic effect can como
-tournations and development of ill-snaped the
Dysmorthogeness: The promotion of ill-shaped hody - tournation and development of ill-shaped hody structures. This term operating includes all structures.
and functional defects.
DOCK NAMICY **
-talanta 11160-11
notes her not for anacentar blood and heart
incrass her six interference etc.
Infections, skin infections etc.
> A Momen's divo use Can Black both ber
· foctus and her new boon
> (Alter bioth); some drugs can be passed to the
baby through breast-feeding.
Hair Dance OFFICE THE DECEMBET WOMEN'S
How DRUGS AFFECT THE PREGNANT WOMEN!
poor appetite
v (frouble sleeping at night
v Gry labour.
V. Water bocoks too early
v Sudden bleedurg:
How. Drugs Affect the Driborn BABY
NAM (B)
Low Weight at blother AVANTH! INSTITUTE PHARMACEUTICAL SCIENCE GUNTHARMACEUTICAL SCIENCE GUNTHARMACEUTICAL SCIENCE
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I fetal Alcohol Sundrome / Fetal Alcohol Effect (FAE)
as til Optardotion
, Detects of the face and body
v Death.
How DRUGS AFFECT YOU AND YOUR BABY AFTER
DELIVARY
haby in the Hospital longer (SIDS)
a Hen lotant Dearn
Committee Deine
Haid to bond with gover bong.
/ Haid to hold
Placenteal Drug Chansler:
+ Digs administred to Mothers have the potential
to Close the placenta enter ocaco the
- Several drogs rapidly cross the placenta and phamaco.
logically significant Concentrations equilibrate in Malcono
and feetal plazona:
PREGINANCY - INFLUENCED 195053 ;
GASTROINTESTIMAL TRACT: SITUTE OF PRINCIPAL AVANTH! INSTITUTE OF PHARMACEUTICAL SCIENCES Gunthapally (V); Abdullapurmet (M)
Constipation: PHARMACEUTICAL SCIENCES Gunthapally (V); Abdullapurmet (M) R.R. Dist. Telangane.
- Constitution Commonly occurs duoing pochusics.
Non-dog Modelities Schould physical exercise an
increased intake of dietary fiber and fluid should

- Ladulose, Soubital, bisacody) a senna can be used occasionally. - Costor oll, Mincoal oil . Shalld be avoided. Gentroerophageol Rellux Discrec: -> Thorage includes lifestyle and dietary Madifications Such as Small, fraguent Meals. - Alcohol , tobaco and Calleine avoidance Diog thosapy, if nocessary aluminium, calcuin a Magnesium antacidi; - Sucralfate, Cimetidize or Ranitidize and Metoclopsamide are also options sif the patient does not respond to historine _ o reaptor blocken. * Sodium bramonate and Magnesium trisilieste Should avoided. Hemorphoids :-- Hemorrhoids during programs are Common. - Therapy includes high intake of dictary fiber, adequate total, fluid intake, use of sitz both, topical anaesth. etros, etc.. - (Prestment for refordetory hemorrhoids, includes Sclenthe with and surpery. Nauces and Vomiting: (NEV) -> Upto 80.1. Of all parcoment women expenses some depoce of NeV. - Hyperemes'is Gravidancia (Severc) Jaux a Junta and (V Varantangmei (M) requiring hispitalization for hisdoation occurs in only about 1 to 3.1. of

Non-pharmacologic treatments, include eating small, frequent Meals; avoiding fatty foods. , pharmacotherapy tocatments include Anti- Histamines (doxylamine) Douglasoios Vitamins Cpyridoxine, cyancobalamin) - Anti- Cholinergias - Ondansation Can be used when other agents have failed, and Broger is Considered safe and effective * Devamethosone or produsolone have been effective for Hyperemeso gravidaroum, but the risk of total clefts is increased. Gestational Diabetes Mellitus 3-- fixt-line therapy includes nutintional interventions for all Women and Calonfic restinctions for obese women. - Flybuide May be Considered after 11 wheeks of gestation. -. Goods of Self-Monitered blood glucose levels While on insulin theops are a posepositual plass glucos level between 80 and 10 mg/dl and a Blanna Blucas 2 hr post- prandial Flypertension :-Includes How without protinuna), preeclampsia.

(Hypertension with proteinurs) and Chronic HTW.

(diagnosed prior to prograncy with without overlying preeclampsia).

* for Women at high risk for preeclampsia, low dose aspirin after 12 weeks gestation reduces the risk for preeclampsia by 19.1.

Ommonly used drops for programa include Methyldopa, labetalol and Calcium channel blockers.

EICE Is should probably avoided throughout.

The paramey.

* For Very high blood pressure in porgnancy, drops to avoid are Magnesium Sulfate (except for eclampsia poevention), high dose dissocide, illimodiquie and Chlorpromazure.

VENDUS THROMBOEMBOLISM:

Pisk factors for VT in pregnancy include increasing age, history of thromboembolism, hypercoagulable & conditions, operative Vagaral delivery or cesarean Section, obesity and family history of thrombosis.

Tortreatment of acute Anomboembolism, adjustich dose low - Molecular Weight of unfractioned hepaning.

Should be used for the duration of premarky.

and for G weets after delurance.

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HEIDACHE :-

- For tension headaches during prograncy non-pharmacologic approaches are first-line therapies include exercise and Massage.
- If dwg Howapy is needed , actetomnophen is the
- _ NSAIDS Fire contraindicated after 37, Weeks gestabon
- For retractory Migraines, Narcotice May be used,

Uninone (Tract Infections:

- The principal infecting organism is Echerichia Colination proteins. Misabilis and klebsiella preumoniae account for some infections.
- (Preatment of asymptomatic backeniums is necessary to reduce the risk of pyelonephritis and piecematical delivers. El course of 7-10 days of tocatment
- Ceptaleon is Considered Safe and effective.
- Vitrofusantoin should not be used after week 37 due to concern for hemolytic anemia in the new born.

Sexually toomsitted

DECOSES S. S.

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to Still bioth

- -> Pheumonia
- -> an ege intection called conjunctivitis.



Diapelos:

-> Insulin 1sthe dwg tocatment of Choice for patients With ether type 1 or type 2 diabetes during pregnance.

Dilepsy:-

- Major. Mattermations occur in 4.1. to 6.1. of the Offspring of Women taking bereadiazepines, carbama Zepine, phenobarbital, phenytoin or Valprois aud.
- -. Drig therapy should be optimized prior to. Conception and anti-epileptie die Monotherapy. Is secommended when possible
- All Women with epilepsy should take a folic acid supplement, 6.4-5mg.
- (B) correct Vitamin k deficiency in newborn ... Women should take Tome oral Vitamin Ki daily dunns the last Month of gestadion.



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and the second for the It is a group of disorders characterized by an abnormally high little Occulting pressure (IDP), optic nerve dystrophy (weakness) and peripheral Visual -freed loss (-tunnel vision)

· His of the to a marker office .

- It is the symptomatic Condition of the rege where the 10P is more. than normal (above 25mmtly) on of the
- , untreated of glaccoma leads to permanentildamage of the optic nerve and resultant Visual field loss; which can progress to blindness.

Glaucomas are ocular disorders that lead to an optic new ropathy Characterized by charges in the optic nerve head Coptic head) - that is associated with loss of Visual Sensitivit and field ... readord stain both

* There are two major types of glaucoma (i) primary open-argle glaucoma (or) ocular Hypertension (ii) primary po angle closure blaucoma Either type can be inherited disorder, conferital, trauma or due to drugs. worse side of grand.

POAG: - In POAG, the specific cause of optic nerve damage is unknown. 1 intraocular pressure was historically Consider

ofto our open of the south liberal

successions of the

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R.R. Dist. Telangena.

The normal July is (10-21) minilg. the colony bady cours loss to the Epidemiology - WILDII has estimated that Globally there are 12 and found summed some million people blind from glauloine sich comi · BOLD -> Approximately 13% of UK blindings registrations are ascorbio to glacuma, and around all of people older than 40 year have COAGI, it mess to calmost 101 to people older than - Once diagnosed, affected individuals require life log Monitering Visual damage. Once lost, Vision Campot be seston The ducase is classified into two types: (1) primary open - angle Glacusma Referred to as a chanic open-angle Blamona is associate With a relative obstriction. Ito caqueous outflow through the trabecular meshwork and is a chromic progressive, Chiane Mische ducase, usually "affecting both eyes both. * (1) (100 Orditions seen in CONG. are normal - tension Staucom Where IDP: 15 not on raised non initial screens of damage are prount (ii) Ocular Hypertension (OHT) elevated IOP in theil a breen ce of Mural field loss or Glamomatous optic nene damage angle - Closure Glaucona:-PACG or clused angle statements is a condition in which close of the argle by the peopheral lois results in a technicion

-focquently unitatesal.

in squeous out-flow. It occurs is por duposed eyes and is PHARMACEUTICAL SCIENC Gunthapally (V), Abdullapurmer (III) R.R. Dist. Te artgand with OKEN Scan

Etters: How. 150 aqueas Humour is produced & Drawed (miles) production of adjuctous humour occurs in the ciliary epithelium by two mechanisms: Secretion due to an active metabolite proces, independent of the level of IOP, and Juntoatitoation influenced by the level of blood pressure in the citiany capillaines and the level of Jop. -> outflow of equeous humous occus by this rootes were not. Approximately 801/200 of total cautiflate is through the trabecular Meshcook intousther Canalical Schlemmer and into the Verous - The Weoscleral pathway accounts for the remaining to 20% through he Cilian body do to be downed into the cilian body ballobha ziologa i dien nanted pare apres and menter dienter in # 100 1- POAGUIS Increased resistance within with directe channels asuses the sisc in IOP. The Main moute of resistance to aqueous outflow lies in the trabecular meshwork * PAGG, the vise in I op is caused by a decorated outflood of aqueous humour, due to closure of the Chamber angle of by the peopheral lois. - The pre-disposing factors can be anatomical or physiological. The anatomical Characteristics are lens size, corneal diameter efe - The lens Continues to grow throughout the Cyc. This books " the anterior Surface closer to of the corner . This will load to progressive shallowing of the antonion chamber * Clinical Manifestations :-POAG IS typically Charactered by: an Jor 1 than 21mmily AVANTH! INSTITUTE A. an open angle & Visual field loss. PHARMACEUTICAL SCIENCES _ Gunthapally (V), Abdullapurmai (k.,

R.R. Dist. Telangenesses win to

K- PACE - Typically expenses intermittent producinal symptoms es- Husoed a Hazy Vision, occasionally Headerno. 6 Acute symptoms be cooular pain, Maurea, Vometing & independent of the cent of inthe celling capillarines and by the local of the celling capillarines and the local of the lo * Itop may bear Measured whyn tomometry wooden in adjawn. * by ce granding Arenapisaling 1 Equizoobs. A In CONG POAG - Blaveomatous Coupping visean. That i mean 1. Top appear to push spe optie diec back into excavation. * The abour of optier discorption be observed to change from Ocamy pipk colour due to sich capillary betwork seen in healthy eye, to inexased pallor with advancing elducaie aparthe riphoribene interio progressively attrophies of The the standard materials and and and and मीरिक्ट किलान्यको हा हुई रिक्सिक में १०११ ता कोंच न्या है the offens released of the country the country the exist history " all lesigning or property of the control of the con restands resolute sto pe proporprincipal ma PHARMACBUTICAL SCIENCES
Gundhapelly (M), Abdullepurnici (M)
R.R. Dist. Telangane. amounts went 4. golf on ! (if boundament) Glesique is the

GLAU COMA PUTERIOR CHAMBER 10-21 BUTINA ANTERIOR CHAMBER CILLARY BODY VITREOUS CORNEA - Clinky Body Internation Lipippelar), literatively POSTERIOR ·03211); there elicites and more Oxparation , Medicaration. 1 119-150 H > -therapies :-ा **।** जिल्लाम 2- Farenciaic regionists stripicate appeared, beta , the poncup all nor-epinaphrine and provoke sclear 9 neurotransmittel of advenorgic system. - Activation to 1 1 x - 21 receptor leads to Vasoconstoctor arionageof. 6 in the ciliary body of oye, "trontalin q eye walting of eye Mary Lettern bear boundered copieds heres by a INSTITUTE OF AVANTH! PHARMACEUTICAL SCIENCES C1 13 : Gunthapally (V), Abdullapurmet (M). · R.R. Dist. Telangana. mother grandente

Palette Charles Bota . 10 cepto aplagmists :- -Bela reapton are expressed -throughout and their antagonists reduces. sty. humuor prodo in the Cilians body by clearcasing "intracellular CAMP Cone a: Betarolol, Carteolol, Levotunolol (limolo) Side-Offects Digner, pour, Blured vision. occura/ Armely, Deportmon, Hallucurothas, Sleep disturbance House Systemic Carbonic Anhydrase Inhibitors: anhydrase is important Carbonic aquamous humor production las throughoutitade formation of quortate & sell- , some godigo 199 enter cilians epittelias cells water can end i constant la laterationera A Copical Carbonic Sanhydraudquenopibitory, Therefore peduce tomakas som Side l'effecti mornio buoning p bitter tarte, Diamoca, Downings teaning, Headacher dizzeneus, Drugo Acetazolamide, Dorzolamid, boinzdamide Motical :-Act to increase lhē autico of agreers mornous by of aliany of will an opening of R.R. Champellanin and tabeaular Meshwork. Minte arc directly acting agents that ad a Musicaninic accepton SI Plocague, carbachol occupie sign - effecti) enxicle, transport, NIV, weather parso, poor might lu

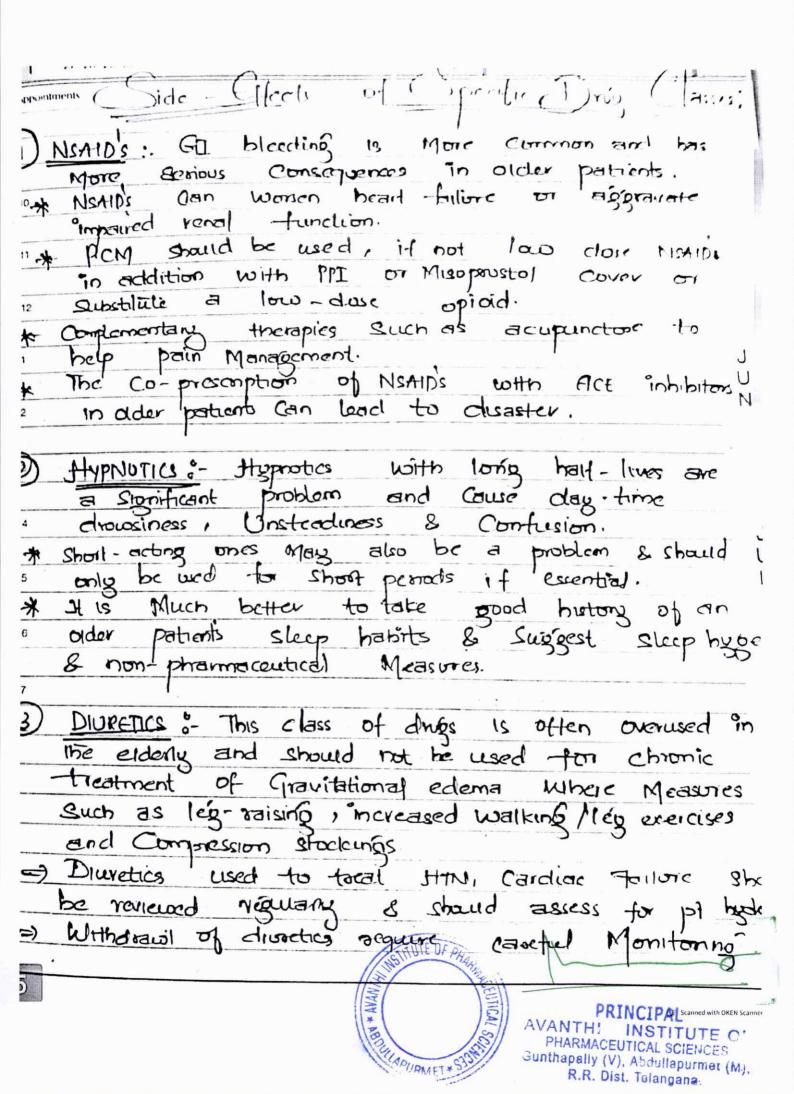
Para sympathonimetics parasympathomimetro include Contraction of smooth Muscle Colls in the ciliary body, which leads to an Incocase in Equeous humbs outflow by widening the Hill to becular Meshwook & Schlemms Canal. Side- Ctfcets: "Intestinal coamps, bronchospason, octival detachmon! Celian Coamps 11 at pupilary bock. Etimapeo closidene (Bomonidere Lorage Lorage Prostaglancien deminativelle out of the beginning of annies on (1) Franklich in Stern - und Change (1) being Pfr., have in been . found to increase overscless outiflow Mismil burdings to post receptor, which leads to wildening of the citian muscle & decomposition tissue filled spaces along the un cilians Muscle . Inditales econo lemon on pris him one monthers in it is Training (Filia) burning sensation, stinging to this pigmentation ex. Letanpoisted p (Provopost of Catly post of Binatopost) symmetry reserve sidely monuments is and the tree osidhas s Himse day to have the Gunhapany((V), Abdullapurmer (M), El x how copy from Aproclomedures 17 Bimatopost 1

PHARMACEUTICAL SCIENCES
Gunthapelly (V), Abdullapurmet (M)

R.R. Dist, Telangana.

ppointments (b). Determine Therapeutic end points
(c) Essess Risk Vs Benefits!
(d) Can one condition treat Morthan one Co
ce) Administration time Matches existing Medici
"Identify all drugs by benenc and also drug others.
Elli dinos prescribed should have Crinical Malcallons
Know the side effect profile of a rogs sour process
Understanding aging pharmacokinetics & how to classes
12 Stop all does without known benefit, without C
Indication.
Always attempt to substitute less toxic divo
thou Negative presembing Cascade (10)
E 2 had another drug)
* Need to follow " One ducase, One drug, One
Donalda al Dona toxeccol de 10 Atamilalizad i
Poinciples of Drugs prescribing in Hospitalized i
<u>racieno</u>
5 ADMISSION: Review all Medications taken by
-1 Assess previous Compliance
6 -> Avoid Unnecessary polypharmacy by: using dr
That tocat More than one Condition.
7 - Br. B- blockers for both HTN & Angina Pectons.
- Discontinue dings Unnecessary in hapital
61: Usmany Anti-spasmodie when Catheter has be
SAFE PRESCRIBING HABITS :-
* When initiating a Mew Medication in
- Choose abounts ushose Pk properties in elderly
- Beon with a chart wasting agent which is
TALL TO A PARTY OF THE PARTY OF
R.R. Dist. Thisnosts

Transport Line at disches
Appointments time of discharge, Convert to an agent that is
gluen OD BD, to reduce as caregiver burden at home of patients require Multiple Medications, avoid whenever possible, drops that are inhibitors or includes of Outochrome P450 hepatic Melabolism, or highly
motible down that are inhibitory on it
10 Cutochrome P450 boratic Melabolism or highly
bound to albumin.
11 ex: Coffinance, Diazepam, Louzepam, Phenytoin, Valprois
acid etc.
121 Use Lower than Usual Maint-mance doses of
Medications that are achal excepted, to: Digorin.
Adverse Drug Grents :-
2 Anytime a pt develops a new or Unexplained
Medical problems Consider Ane as a cause:
Anytime a pt develops a new or Unexplained Medical problems Consider Ape as a cause: Beg: Delinium, Hypotension, Renal failure etc.
" of the time of Discharges-
- Review Medications that were taken by patient
5 prior to admission and challete which should be
Irenaved on discharge,
6-1 Review all Discharge Medications with the patier
a family and provide Worten Instructions
米米米 Avoid Symptomatic treatment.
Symptomatic prescribing in the older patier
tends to lead to an I Vicious "Cycle of polypharmac
Advence effects and -further presenting to treat
-these new Symptoms,
444 Avoid Non-prescribed Medication (OTC).
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PHARMACEUTICAL SCIENCES Scanned with OKEN Scanner
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should be 125/46. In the renally impaired, it should
· be 67.5 μg.
* 250 pg likely to came to ricity.
π 230 μg πατης το πρης.
DRUGS THAT CAUSE BONE MARROW SUPPRESSIONS-
" - Co-tomoxazofe & Chlosamphenical Should only be
11 - Cortanoxazofe & Chloramphenicol Should only be used lif -1-hear is no Suitable atternative
12
ANTI-CONGULANTS AND ANTIPLATECET DRUGS ?-
- Beware of GI bleeding and CI Such as peptic
2 Ulceation.
The state of the s
-> Wherfarm Should be presembed when patient have full understanding why the ching is being taken
L. L
by him.
ANTI- DEPRESSANTS: - Ton-cyclic anti-depressants 5 Commonly Cause postural Hypotenion, in older pli
comonly cause postural stypotenion, in older pls
shouldto be used carefully
6
DIABETIC MEDICATION: Long - acting wal Hypolycomic Juch as Chios propamide & Gliberelamide should be avoided if these is Syntheant risk of Hypolycomic - Tight diabetic Control Must be balanced.
Such as Chips propamide & Gliberglamide should be
avoided if there is Siphificant and themplicant
- Tushi distribic Chatasi part he halanced
THE CHARGE - STORY THE THERE !
E OPMINATION
USE APPROPRIATE FORMULATIONS:
Some older patients have sualkeving
problems which May Mean that tablets are not
The best torm in which of Photo precenbe their
treatments.
PRINCIPAL Scanned with OKEN Scan
WANTH! INSTITUTE OF
PHARMACEUTICAL SCIENCES Gunthapally (V), Abdullapurmet (M).
R.R. Dist. Telangana.

appointments of lablets - that recording in Mouth & Desephagus for longer dunation came Ulcomition. Some tollowing points can be taken into account to ADR'S Veduce Should be considered as far as possible before starting treatment for dueses like Obesity, Mild ITN & Athroacherosis. Choosing the appropriate drug.

The pt needs treatment, Must ethicacions U symptom should be selected. ** Aud drugs like B-blockers in bypertensive pat with history of Asthma or seducing duse of DIGOXIN in elderly with sonal pt unwanted ADRS. # formulation: Presconding drugs in the form of symps,

Outpensions & effencescent tables can improve adherence in elderly and find it easy to swallow. Care should be taken not to give drugs in child resistant Containers as pls with find difficult to open. Maintaing Record and Penadic Haview Maintaing drag record will belp to Cherk adhesence, interactions 8 live Conomic Burdon Carefully to assess the need for any. Conned with OKEN Scanne PRINCIPAL -AVANTHI INSTITUTE OF PHARMAGEUTICAL SCIENTS

Gunthapelly (V), Abdullapurmet (L R.R. Dist. Telangana.

Jome (tomorly OI Options reatment - ducases * INDMNIA: : Instead of Onnecourary use of Hymut, Simple Measures like Avoidance of Beverages in the night - Wilding of the bladder before going to bad chitting to a dark norm * Howaver , if tocatment for incomina is reoded Sedatur Hypnotics like BNZs Can be used. * Care should be taken to avoid Long acting dius like DIAZEPAM, FLURAZEPAM & CHLORDIAZEPOXICE asthey cause chausiness, Confusion, Slurred speech Unstrady Gait, falls & day time sleep.

These effects Searn to be loss with short active BNZS like TRIAZOLAM & OXAZEPAM * Intermediate agent such as TEMAZEMM MORE worky amiliary ron-BAIZS like ZOLPIDEM, Zale PLON ZOPICLONE which have little disruption on normal sleep architecture can also be used. -to treat diseases like Rheumatoid Motherly used Deterration ete GI bleeding association Mose Comon in elderly. with Such tocatrocal is Selective Cox-II Inhibition Seemed to be promising Candidate to long term tacationent of channic txatracal. Non- Pharmacological Measures 1,16, Weight seduction. Worth, exercise, walking Hick etc. * To aclieve poin part or usupoten can be used. AVANTH! INSTITUT PHARMACEUTICAL SCIENCE

Gunthapally (V), Abdullapurmet (in), R.R. Dist. Telangana.

Treatment Options for some Commonly ducases : * INDMNIA: : Instead of Unnecessary Use of Hypnutics Simple Measures like Avoidance of Beverages in the night Voiding of the bladder before going to bed Chifting to a dark from * Howaver , if tocatment for Incomina is needed Sedatur Hypnotics like BNZs Can be used. * Care should be taken to avoid Long acting drugs like DIAZEPAM, FLURAZEPAM & CHLORDIAZETONICE asthey cause chausiness, Confusion, Slumed speech " Unstrady Bait, falls & day time sleep."

* These effects Searn to be loss with short acting BNZS . like TRIAZOLAM & OXAZGPAM * Intermediate agent Such as TEMAZEAM MORE useful of Smitaly ron-BAZS like ZOLPIDEM, ZALEPLON, ZOPICLONE which have little disruption on normal sleep architecture can also be weed. APTHRITIS: - NSAIDS like Agreen are forguently wed to treat diseases like Rheumatid Arthorise, & Deterrated Osterathantis ete Git bleeding associated Moor Comon in cloterly. with Such toxatroant is Selective Cox-II Inhibition Seemed to be promising candidates for long-term tocarment of Chronic tratment. - Non- pharmacological Measures lib, Weight occurrent.
Worth, exercise, wasteing Hick etc. * To schere poin pent or hupoten can be used Scanned with OKEN Scanner PRINCIPAL AVANTH! INSTITUTE OF PHARMACEUTICAL SCIENCES

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Appointment Ederra: Measure like elevation of legs, supporture stockings and active life style. daugh! Drug induced blooding is commonly and Sean in elderly & bence drugs like Curtomoxazole should by avoided. " * Similarly ducid warrann is decorased if it Cauci Frous Heading. ADHERONICE: Cognitive Changes like forgething to take pills at night time, economic stress due to descared income, increased expenses ete can occluse adherence in eldery people. and frequency of drug administration as it is easy to remember. - Durage schedule at night times is preferred for anti-psychotics to seduce ADB L like drowsiness, Sedation etc. Disches can be presembed at day time avoid sleep duturbance al night. Contains and labelled in large point of acc unced for eldery pls with Arthortis & G boor Misson. Big size tablets & Capsules ax avoided If Many drugs are to be used together they should have distind Colors & shape to avoid Contusion to the particit. INSTITUTE C PHARMACEUTICAL SCIENCE Gunthapally (V), Abdullapurmet (m)

R.R. Dist. Telangana.

CARDIAC GERNYTHAN	Dyscheltheold .
Definition: Anythmus refers to Courses inequality heartheal on distinction both. In anhyte	a group of Corditions that when the period , heart boat many be
too fast, too slan, too early o	•
floogthmies occur, when the	electrical signals that
to a man A stranger	
Tople In A	-> Normal :
=oble mode	
	· Chalythan !!
· Ster - Sold in the ster of t	e s s s s
Norte P	orti
North Indiana	volution of
node, In Charles	White IV I was the was
Jumphan in the state of the sta	Em Call
(Ispes of Arrythonias:	Mill mall -
	n like basis of pace maker
To the court statement in house	
SA Node i NV node	Ventreular Heart
Atnal Miculialux	Musquetuse Block.
A DURINET & STO	PRINCIPAL AVANTHI INSTITUTE C
	PHARMACEUTICAL SCIENCES Gunthapally (V), Abdullapurmet (M) R.R. Dist. Telangansened with OKEN Scanner

fair physiology Tallythmia when she needs works as pace mater !-Sinus arrhythmia Sinus Anchyczielia Sins. Barryer (1) Sinus Arabythmia / Respiratory Sinus Arabythmia (P2A): I regularity in heart rightim rate originating at Sins , Definition: - Rhythmical increase and decocase in heart rate in relation to respiration Chairt sale lanes; according to phears of respiratory cycle. Causes a Flucturations in the discharge of impulses from show Inspiration: Hearl rate Tes Expiration: - Heard rate to 4 Decrease in Intrahomoic pressure - Increase in interthosocic press -Increase in Lung Volume. - Decrease in lung volume. - Increase in Venous return - Decrease in Versus veturn - Stretch receptors to lungs - No etimutation. Stimulate - Vegal tone increases. · Vapal afferent impulse, - No inhibition of Voxedulation - Thus inhibition of Wasadilator area. - Thus Heart rate Decrease - Vagal tone decoesses - Thus increase Heart Rate. Diagrosus: long R-R interval. Diagnosis - Short R-R Intorval lachycardia :- [fast Heart beat, Heart vate Moxthan) 100 b/m 7. Definition: - Increase in discharge of impulses -from so noch resulting in Increase in Hearl, rate Discharge of impulses 2000 SA node is Veni papid and hant sale incocass

1) Physiologic Exercise Enotor then attitude pregnanch

Pathologic:-

Fruer Hypovolemia, Dehydraton, Annemia, pain, Hoperthypoidum, Cristiangopathy, Hemostragic Steel, CNS Stimulants Coeffeine / Cocaine, Nicotor, Amphitamino de: 6 CHF

Cordine outfill may fall which course Symptoms :-Dizzines, -fainting, Chest-pain, palpitations, heaviness in chest,

Pacally.

Diagnosis: - E.CG. Short R-R interval.

(heatroant 11- B- Blocker, calcium Chamel Blocker

Underlying Treating

Lete style changes

Dirus Predycardia : (Heart vale less than 60 b/min).

Defortion: - Sinus braducardia is lise deduction in of impulses from SA node resulting in ideoscare in heart sake

(awa!-Physiologic -Sleep, Athletic heart

Principalial: Discore of Sh node, Hest, mediorelapt , simestagett attack, Coppenital Heart Discour Heart tissue Damage (Myccardita

Atherosclerosis. Drugs lito

OCB, Digitals, Antributhoric dro

PHARMACEUTICAL SOLEMAND WITH DIEN SCHOOL Gunthapally (V), Abdullapurmet (w.,. R.R. Dist. Telangana:

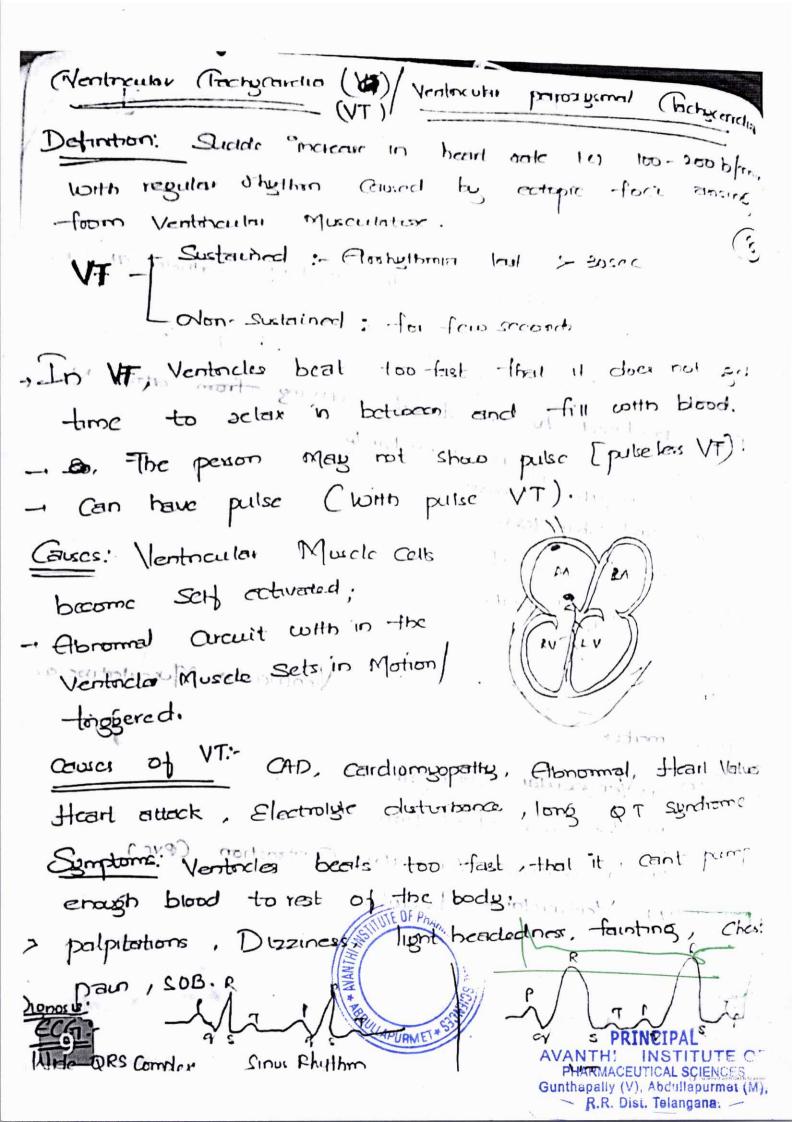
Signs and Symptoms:
Dizzins, frinting, fitigur, soe, reduced everaise tolerona
Sich Sink Synchome.
Dagracis: ECG: protonged P-P internal
Treatment :- Ascal underlying conditions
- Regulates anti-arrhythmic drugs.
- pace- Maker implantation.
Analythmias when Av node & Almal Musculature as
Pace Mater.
* Supra Ventricular (Pachycardia (SVT) / Parayeard SVT
It is Sudden attack of incocased heart our due to
ectopic faci awaing from atoms Musculation or Au race
11 - ut rate 18 > 150 h/min.
* Atino vento cular i Re-entrant (Pachy Cardia.
* Other Flutter
* En Atrial Fibrillation
* Pre-Mature atonal Contractions (PAC)-
Auncie II
AVANTHI INSTITUTE OF
PHARMACEUTICAL SCIENCES Gunthapally (V), Abdullapurmet (M) R.R. Dist. Telangana.
Ectopic foci: - Ecotopic Cardiac controllmentes is the abrosmal heart to
in which one of the striction of the child cotonic focus

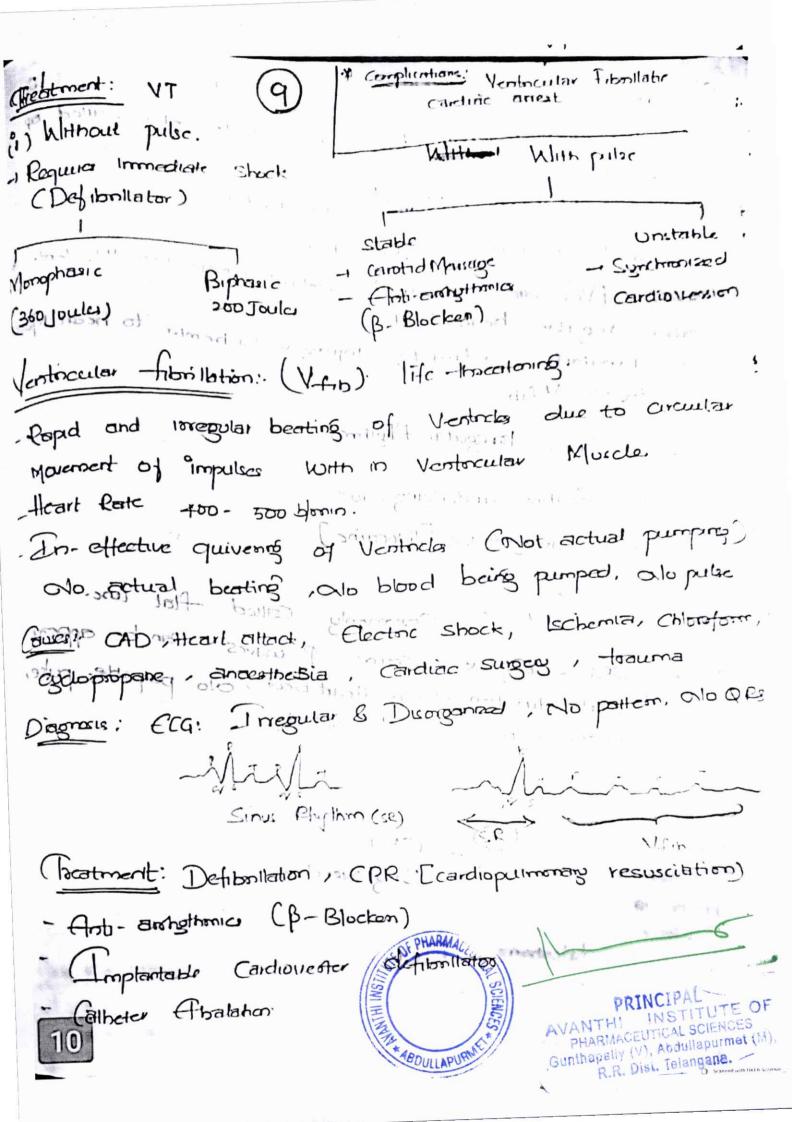
Athorenticular nocial recommend Chargenedia: Impulses arising from AV and due to temposing block in anducting system. There is an estra perthusay (abnormal Junctional tissue) in 11/1/11 heart . Mat Cours electrical Signals to circulate around and around the Av node Alrode instead of moving down to the Vontricles and tryger rapid heart sole. (Itho Verticular) vaciprocating tachycardia: Abnormal pointing lints the other and Ventrales Causing rapidly amund and around in move loop Causes: - Congenital CElbronnal palhusys or electrical circuit in heart) - Scar tissue from Surgery previous heart ettack. (auc tauty signals). Calleine, Alcohol, Smoke, Cocair - CNS stimulants ampetamines stress, Thyroid discore , Sick sinus Syndi Symptoms: Regular but racing heart 6120. Dizzines, fatyore, SOB, palpitations, fainting: Diagnosus: Physical Grammation (BHAbin acca) ECG - p' wave is invented Compler u PHARMACEUTICAL SCIENCES STANDED WITH OKEN SCANNER Gunihapally (V), Abdullapurmet (M),

R.R. Dist. Telangana. -

Rentiment: Anti-Empythenics - Amindmone, Alenotol, Dilh. Digoxin, Alecainide, Quinidene
-Anti- congultant: kharteinn
Catheles Abolation: Surgeon burns the pathway that
Troial Propiletion
atrial Musculature that causs Troegular & sapid has
bate from atra. As a result
atoma quiver.
-Rapid and irregular athal
Contection -> 300 - 400 b min
Atrial Flutter: Rapid and to-in-effective atrial Contra
both the atna beat rapidly like the wings of a bird.
Down the arms part - 300 plants.
Causes: Femilia thistory, Organital. most worth und
Causes: Family thistory, Congmital. month would upol
thon BP done ledonile Symptoms:
CADONE HOLDER , SIETHAND IN
- Abnormal Heart Valves - Prival parations
- Over active Thyroid gland: - Pacing pounding heart - Chest pain - Chest pain
- CNS Stimutantining - Chest pain - Chest pa
D
Previous Heart Surgery SOB
Visal infections - fatigue
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R.R. Dist. Telangana.

Bonocia: Ecel - b. rounc appoint injuly water about [Atrial Prestment :- Anti enrhythmic, Anticongulants, attheter abalahon Electorcal Cardiovenion Pre-Meture Atrial Contractions (PAC) (Atrial - PAGY produced by a stimulus assurg Extra p-ward appears immediately after the regular (Therene - Small and Shapeless. P.R interval is Short dis - Missed on Skipped beat. entrocular Dysoohylhmias Ventraulor Muxulature as pace - mater. (ii) Ventoculer habiliation (III) Pie-metuse Ventocular Contraction (W) Ventroutoisto Asyctoles 1200+ unthapally (V). Addultapurmet (M), R.R. Dist. Telangana.





Pre-Meture Ventreular Comboutions (1810) (10)
Exten heart book their begin in Ventricles also critical of
Sumptoms: Fluttening (Ixlused) Skupped beat)
and the state of t
Pics aic Bhothai
- CNS Stimularts and Anxiety, Injury 8 Ischemia to trait in
Or Strouterts and Anxiety Injury & Ischemin
- CNS Street V-frb.
Can troser V-fib.
Damelsi ECG:
Commot: (Beoting unclerising cond
(hearing Anti-rambythmics [lidocaine]
sales of the same from the same framped, alo pulse
A supplied of the Collect of the
O WAVES
Absent ORS - Wo Heart beat, No palpaber 100
for another durated activity of
No respiration, als electrical activity.
ECG:
Cauco: _ CA-D
- I bong one dose
- Stypoxia
- Cicidosu
- Electrolyt duturbance PRINCIPAL AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES
Gunthansliv (V) Abdullanurmet (M)
R.R. Dist. Telangana. R.R. Dist. Telangana. Heart Muscle layer)

Venturation with thigh Concentration of CPR -for 21 min Continuation Adversionic lomeg lkg ismiology: It is estimated that 3.9 millions people in Ush Cardiac archythmias / Cardiac abythm disturbance and that 7,30,000 hospital admissions each bear; 45000 deaths occur each was de reduceroland to or recting fromtone adam esannel of (heatment :-1) Intermediate : Quindine (200-300mg); Proceinamide; dispersande 66 (500-1000mg); (500-1000mg) Disodium + 6 Channel blackers: (500-1000mg) (100-150mg) Mexiletine (200 300mg, 8h) ® Fast (50-150mg) (50.300mg, 8H.) @ slow Sodium Channel Borton Quindine, Procainamide, disopyramide. Birdson to open and innetward sodium channels and pocuent Nat Influx, 1-thus slowing papid upstople of phase 0. Side Effects - Blomed Vision, ilradation, tinnitus, anti cholinergic effects Lidocause, Meriletine: class 18 divigs, rapidly associate and dissociate The sodium Channels, and detay-the action potential. Side- effects: CNS toxicity including strengthing. Nausca, Vometing Floranda, propaferone: - Class Ic drags slowly dissociat resting and Slow down the thon Dizzincer, Bluncel Vision,

Ventilitation with High Concentration of CPR -for 11 m Continuation Athereline lomeg ltg 4 min CPR (item 10/00/2) - It is estimated that 3.9 millions people in Ush but andiac anshythmias / Cardiac ahythm disturbance 7,30,000 hospital admissions each 800) 45000 deaths occur each your due protect or method godan examelas (heatment: D'Intermediate : Quindine (200-300mg); (500-1000mg) on (100-150mg (500-1000mg) (100-150mg)

6h @ Intermediate Mexiletine 6 Fast (200 somg, 8h) (Sound) Flections; propaferone (50-150mg) (50-300mg, 8h) @ slow Sodium Channel Hacten Quindine, Procainamide, disopszamide. Birds to open and inacturated sodium channels and also inhibits potassium Channels. Side Effects - Blowed Vision, Headache Hinnitus, anti cholinergie effects Lidocause, Mexiletine: Class 18 divos, rapidly associate and dissociate from Sodium Channels, and detrois the manual Manu Side- effects: CNS toxicity including scruits. Nausca, Vometing Florainide, propoferone: - Class IC stential. AVANTHI INSTITUTE OF nel and Slow down PHARMACEUTICAL SCIENCES ---- Blunch Vuen, Olauca Gunthapally (V), Abdullapurmet R.R. Dist. Telangane

chase II: B. Blucken: proprandol, Metypolol, Esmolol. These lare B- expensive antagonists. These drops diminish phase depolarization depressing automacity, prolanging decocases heart and Contratility. Side - Eller : Tabour, dizencu. Nava, Vambre Au conduction and

Class-III Anti-amountamic drugs: Totassium Channel Electron Cx: Amiodatore , Sotatol , dopelilide.

This indirection like authoride potassium current during reports.

These agents prolong the duration of cetion potential, without arter side - effects: pollmanary finness, blue gare Sten discoloration, Olempathy, Man

Class (IV) Anti-ambythmic dans: Calcium Channel Hocken.

- They redected the inward current Carmed by Ca+2, resulting in a decocased and of phase 4 gentaneas depolarization. The also dow the conduction from Av rode.

Side- effects: Head acts. Dissence . constyphon . Nauca.

Olher Budese Arsti- arrhythmic Drugs.

Digoxin: shortens like retractory percel in esteral & Ventocular My dial calls while prolonging effective refractors period and dim conductor Velocity in Av rose of the mility of Conductor Velocity, alauren, Wenting of Conductor Velocity, prolong of soctory pri Eldenosine. Decreases conductors Velocity

and decreases automocity in Av noch.

Property of the State of the St

Side effects: Flushing, Hypotension,



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Code No: PH206

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD Pharm.D II Year Regular/Supplementary Examinations, July/August - 2021 PHARMACOTHERAPEUTICS-I

Time: 3 hours

b)

Max.Marks:70

Answer any five questions All questions carry equal marks

1.a) b)	Discuss the role of beta blockers in Heart Failure. Describe briefly the management of ST segment elevation Myocardial Infarction	on. [7+7
2.a) b)	Write a note on Microvascular and Macrovascular complications of Diabetes in Describe the etiology, pathogenesis and management of Angle closure Glaucor	
3.a)	Explain the different Pulmonary Function tests employed in the diagnosis of re disorders with their significance.	spiratory
b)	What is nitrate tolerance? Write a note on management of Nitrate Tolerance.	[7+7]
4.a) b)	Describe the Pharmacological management of Atrial fibrillation. Discuss the etiology of Bacterial conjunctivitis.	[7+7
5.a) b)	Explain the Pathogenesis and treatment of Myocardial Infarction. Write the management of Thyroid storm.	[7+7]
6.a) b)	Write briefly on Hormone replacement therapy. Explain the general prescribing guidelines for Pregnancy.	[7+7
7.a) b)	Discuss the Pharmacological management of Diabetes Mellitus. Enlist the types of Insulin Preparations.	[7+7
8.a)	Discuss the Class I and Class II drugs used in the treatment of Arrhythmias.	





Describe the Pharmacological treatment of Diabetic neuropathy.

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[7+7]

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II-Year I-mid Internal Examination

Subject: Pharamcotherapeutics-I

Time:2 hr

Marks: 30

MID-I

- 1. Define hyper tension. What are the various grades of hyper tension?
- 2. Write a note on pharmacotherapy of chronic heart failure?
- 3. Write the pharmacotherapy of Dyslipidemia?
- 4. Define acute coronary syndrome and write note on Etiopathogensis of acute coronary syndrome?
- 5. Define angina and write pharmacotherapy of angina pectoris?
- 6. Write the therapeutic guidelines of hypertension?
- 7. Write a note on risk factors and complications of Dyslipidemia?
- 8. Write a note on pharmacotherapy of acute coronary syndrome?

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AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES

Gunthapally (V) Abdullapurmet (M), R.R. Dist

II-Year II-mid Internal Examination

Subject: PHARMACOTHERAPEUTICS - I

Time:2 hr

Marks: 30

MID-II

OULLAPUPA .

- 1. Explain briefly about thyroid diseases?
- 2. Explain in detail about hormone displacement therapy?
- 3. Write about drug induced pulmonary diseases?
- 4. Define osteoporosis and write about its treatment?
- 5. A)Clinacal manifestations of Asthma?
 - B) Etiology of COPD?
- 6. Explain pharmacotherapy of the glaucoma?
- 7. Write etiopathogensis of the Diabetes?
- 8. Explain briefly about oral contraceptives?

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NAAC MATOMAL ASSESSMENT AND ACCREDITATION COUNCIL BR++ GRADE	INTERNAL DISCRIPTIVE EXA			
Hypotensión is defin Pressure (BP)	Subject: Signature Invigilato Total Mar	elGvated asterial bloo		
	in odults (age 18	mos (
No classification	systolic (mm Hg)	Prostolic (mm Hg)		
. Not mal	2 120	∠80		
e. Poo hypootension	120 -139	80 - 89		
3. Stage 1 hypeotension	140 -159	90-99		
4. Stago 2 hypeotension	2 160	makend > 1000 - Janiton 6		
Isolated systems on masters on the state of				
b) piastolic blood pressure (DBP) -> 290mm Hg Systolic blood pressure (SBP) -> > 140 mm Hg and mon				
HUPEN tensive coisis CBP 3 180 (120 mm 19)				
may be conteagodized hypeotensive emeagency / hypeotensive emag				
8PC. GIEVAKON with acute (progressing and - organ damage mainly hitro				
Prosside used)				

·Palkophysiology &

hypediension -may resuit : effologyt (aptily by), beschior bt (M),
R.R. Dist by Porte Peron)

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- Humoral abnormaliles involving the RAA's (68) natriusetic home
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- Abnoomalites in senal (00) Hissue autoregulary process bon
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-> deficiency in syphosis of vosodilating substances in
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(Prostacyclin) (00) Gxcoss varoconstricting substances boady kn Nitri oxide
-) TNa+ Intake (00) rack of dictary cate
> main causes of death are
- coso boovasular events
cardi ovascular events
Tomas Joseph Hallwoo
=> probally of premature death carrelates with -> BEVENTY of
BP agration.
clinical presentation:
Call Freshward Energy
patients - with 1° hypesteristen are a symphometric initially.
-> patronts -> with 2° HTN -> having symptoms and contract to late
patients with pheachdemocyhung in 1° aldosteanism
headaches hypokalenic symptoms
Sweating Sugaring
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est elevation and acute temporaum and acute and acute and acute ac

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development

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tiliser 6m. de

Bur, do unsignite

1° hypestension includes

2) Definition:

- The is a physiologic state in which heart is unable to pump enough blood to meet the metabolic needs of body at rest of during exercise eventhough fluing pressures are adequate.
- ap with the volume of blood flowing through them.
- can be life throatening.
- -) failuse could be sin on the LEFT or Right side of your heart or both side may Pail out the same HME & BIVENTRICULAR HEART Pailure)

systolic Dusfunction

Creduced Ejection Praction?

Theart muscles are two wears

the rentricies streated out

Conwage, proppy, artated and

failed to confract efficiently

tooks blood is pumped out.

Causes of Chip

systolic by stanction

- -) Ischemic neast disease
- Hypeoterston
- " Large soit Intake
- -) Diabetes
- a hiyocadihs
- a) over weigh, smoke, alcohol, excocame
- -) Heast value disease
- -) pilated cardiomyopathy
- -> Anothy Kimpus (Abnoomal Heart)

Diastolic Dysfunction

- Cardomyopathy (Hypasteopic & Restrictive)

prastolic bysfunction

[POESSET VES EJECTION BACHON]

-) Head muscles become stiff thick, rigid inclasific. To that they no long 67 fill property Can not property during drastole] less blood in venticles.

A mpealension -

moceandiat - The attrion

-) 1888 blood to body during condition.



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-> constrictive myocastites tood todo of state of the
                tood to meak the meakers madeds of body
-) cardiac temponade
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-) Postic stemosis
-> Amylodosis and food to scaling and the mount
-) Humochoomatosis and the dock and the soul to complete any the soul
 EMB STORES CHARLES TON HOW I'VE CONTRACT STORES ON THE STORES
B) hyperlipedimiq
  forms could begin on the LEFF or Right sale of
>1 amt of cholesteral in blood vessels
-> BCOZ = causes = 0 alcohol
                2) smoking
       3) Junk food
MARCONN AND DOCUMENTS OF TOTAL
 5) Lack of excepses.
-) HDL -) is good greater han 60 mg las
-> LDL -> bad greater man 160 mg He
* symptoms:
-> obes914
-) edema
-) Insomenia -> lack of sleap
-) Joint pains
* orugs:
-) anticouguons
* POG cauations:
                                oug creign, smoke a prochop car occurs
-> Transfally acld
            foods
-) Avoid accohol, smoking
-) Avoid stress
* Adv6286 26 big :
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-) probstive system mor.

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-> Holomo iysis

-) drowsin688

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SHOULD BUILDING SOUR TOO WATER

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Continonyorpathy (Hypaster Pro 14 Hestindina

-) PET 12.5 million people -> prome to buildness

UK - 13%. glucoma blindness cases

21. Occured to the to years age group people above 78 years.

Bosase of book common to a same to be be about our

- There body gods summerted it reads of over production of human
- humor in see the condition glaucoma,

Hypob·Li Pidemta

-) thereases of biglyceoldes alchaesteral level in blood.

Morman values of

TC + 2/200 mg 1/1

ta + 2 150mg ldl

HOL: 40 mg (all or higher

LOL & 2 100 mg /dl

- Thereases in the lipid bodies in the condition is called hyper lipidental tridents
- archor)
- -) more common in western countries.

RISK factors

- -> pamily history of Hyper li Pidema
- -) Archad consumption
- 8 mooking
- Dm .
- obesily
- mypothy toldism



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esstanding of

not - treated trigiy coral and cholostral lovels tes serum.

pectodis Itahemic chest pain Angina

of: Angina pectoris latin phrase strongling in the chest angina is a chemica undoome characterized by episodes of pain or pressure in the centre the elest just belied the breast

It occass when the heart muscle doesn't got as much as blood Chence an as it needs because of nantowed or blocked coronary blood vessels.

engina is a sympton of a condition called myocardical ischemia

types of Angina

chaonic stable anging

s unstable anging

vasiant mgina

chronic angina

fixed stenests / Domand angina Thrombus supply techemia

chosnic nonsowing of carbonay asteries due to alherosderosis

-) Issue become ischemic pashalosly

during bimes of hoseesed or demand

-> Physical Greation, large meal, 6 antional stress

-) lasts tess han smin adived by test or medication

vorigon anging

princemetal supply ischemia,

- -) Results from convoy vasospasm, which tempadily deduces cosenacy blood flow
- -) Emotional stross, dysfunction al coronaly vasular occurs during night or dost.

causes and Risk factors of angina:

- -) 1790, and Alsomeri aromen above 55. and m6 (245)
- -> Atheroscherosis
- -> smooking, 'obesily : Dm
- -) High BP
- -> High blood Chollsterol or big 19621d6
- -) excess intake of fat or sait
- -) Eating a heavy meal
- on amotional stress
- -) Ramily histody of CAD.

unstable Angina

secondar and set him as excusted the first mendance

harmes to see the condition stoucening.

- -) caused by formation and dissolution of a blood clot (thrombus) with in a cosonary oster.
 - -) symphine was severe pain last tunger, occur at sest, not religious by nilsogyeth. Emokiss on the light feeling

makes are made rapported consider to

a choice a

especial the product the cost of

majorotettogen

Acute choronary syndrome

If stable / angina is not treated then it leads to Acs emorgancy.

- Acs s woston loupture of alecos deotic plague
- It leads to formation of tot in coronary autory

swedy reduced blood flow to heast

Necrosis 1 myolar diai Infasction

RICHON & DOWNERS

more common in Propile

classified into 3 types nes is

1) unstable anging

tion the good

- smoring next tower your 166 2) NSTEMI (non-st-segment - Mevation mi)
- 3) STEMI CST- SEGMENT GIEVARON MYOVARDIA 1)
- 1 unstable anging
- of plague oceur but no complete blockage oceus

characteriot, night characterior can

-) no in farction of heart moscie

O NSTEM I

-) No complete blockage - of cosonary actesy but their is infaction of House musello, your witchies / camedoscions:

(3) STEMI

can reduce theod free oxygen sich blood to past of heast Brancha SUPPHOS -> That actedy

SPURMET + 8

- -) blockage disease only in 1 V68861 -> single VG8861
- -) blockage only in vessel -> pouble disense of his most VOB61
- 3 vessel -> vessels miple vessel discusse =) BLOCKage only m

C33/4

Troatment

Aspirin Canti Plateiet daug?

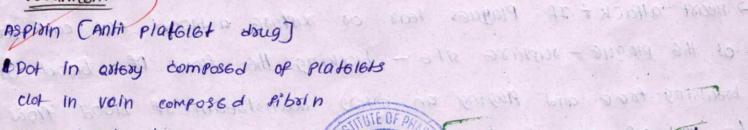
clot in voin composed fibeln

And plate 16 + doug

- 9 Aspidin
- 2) Clopidogogi
 - 3) Ticagrelar
- in verns -> Drugs gre antreoagulant used
- as antiquatetes in a etery -) Dugs wed
- progression of Clot. provent

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Stock 6 & smilks



- Pactors that can increase your risk of unhealthy cholosterol levels include;

 Poor diet: Eating too much saturated fat or trans fats can result in unhealthy cholosterol 16vels. Saturated fats are found in fatty cuts of mail and full-fat daily Products. Trans fats are often found in packenged snacks or desserts.
- of high choics toxol.
- cholesterols
- good" choicsteroi
- -) Alcohol : Orinking too much alcohol can increase your total cholestere,
- -) Ago : Even young children can have unhealthy cholerterol but it's much more common in people over 40. As you ago your liver becomes less able to remove <u>LDL</u> cholesterol nigh cholesterol can cause a dangerous accumulation of cholesterol and other deposits on the walls of your arteries (atheroscierosis). These deposits (plaque) can reduce the of from through your arteries, which cause complications, such as:
- -) Chast pain : If the asteries that supply your heart with blood clot can form out (commonly arteries) are affected, you might have chest pain (original) and other symptoms of coronary writery disease.
- THEAST attack: If Plagues tear or supture a blood clot can form at the plague rupture site blocking the flow of blood of breaking force and pluging an autery downstream. If blood frow to to past of your heart stops, you 'll have a heart attack.
- blood clot blocks blood flow to part of your brain

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INTERNAL DISCRIPTIVE EXAM

Broad 1 200 be



DATE: 25/00/21

NAME: Shreye ROLL No: 18 (10022 CLASS: I year pharm D SEM md-1

STUDENT Shreye

Subject: pharmacotherapeutics-I

SIGNATURE OF THE INVIGILATOR'S

TOTAL MARKS

KON HOOK

Hypothyroidism

SIGNATURE OF THE

1.

Hypothyxoldism results from inadequate secretion of thyxold hormones, which virtually alters the function of every organ System. The typical nonspecific signs of typothy ooldism include intolerance, excight gain, constitution, day skin fatigue, cold and overall body aches voice, hair loss, brittle nails, hourse sodium is the doug of choice for thyoold repla-LGvothydoxing chemically stable free coment, because it is antigenicity half - 1196 relatively inexpensive. Dosage long and 1.5 casefully adjusted according to individual regulremen nts and response. The average daily dose 16 vo thy soxing in adults up to so years of age 19 1.6 mcg/kg of weight (100-125 mcg/day for a 70-169 adult). Levolyroxine requirements and change with ago, progetisting

contiovascular discase, long- standing Prograncy. levoly so sine sodium 13pasentes al usually 8686 DVGd for Patients with

hypothy to idism and availa ble

my x6 de ma coma acute hypothy soldism. In soamuscula,

condition coused by

ndection is discouraged because absorption is variable ntravenous doses should be half the oral dosage because dal deses are only absorbed approximately 40% to 80%, yperhypoid ism also known as thypotoxicosis, occurs when assues are exposed to excess knowld hormone. The most common cause of hyposthy boldism is abaves due as as in autoimming disorder that produces antibodies against Myrold - stimulating hormone deceptods. This process stimulates the Hypoids gland to synthesize and secrete excess Mysold hormones and tolloothy sonine & 115th other causes of hyperthyroldism. signs and symptoms of 6xC688 thy boild hormone are dependent on the patients age dupation of illness, and extent of hormone excess in the circulation. Those signs and symptoms are listed in when evaluating patients for hyper thydoidism, · a thorough · physical assessment should be obtained including weight and blood prossure pulse sate and cardiac shythm, cardio vascular oxamination, mysoid paigation and asiscultation (for size, nodulatity and vascularity), as well as neuromu. scular, eye, skin, and lymphatic - examination. In addition to the physical examination 11576 d above laboratory 46sts must be performed to confirm the diagnosis of hypos hypoi dism...

is roughly seem such to roughly and some come

The roughton coursed by once the hope husbands to be bearing

same to asorio tile inno

Hormone replacement hexapy (HRT) is supplementing women with hosmones that are lest during the menoperusal transition. To relieve the symptoms assocrated with menoperate conventional HRT includes as estrogen and progesterone component to mimic hormones coecited by the human outry Estrogen therapies are numerous and include hose indigenous to the human ovary for example estadiol (CEE) the most commonly prescotted estrogen in the united states. The contract of sometimes contract of the contr welesonced information the applied dates

estables that capacity administrated that went

Objectives :

- the comen's theath salughue · Identify he different formulas of hormones too seplacement heapy
- · possesible the adverse effects and contraindications of hormonal deplacement these py.
- · summadize the indications of hormone replacement thosaly.

Indications:

Hormone deplacement the wary is supplementing women with hormones lost during the menopausal transition. To relieve the symptoms. associated withe menopose conventional urt includes an estrosen and progesterone, component to mimic hormones coeasted by he human ovary replacement therapy see our companion statements otherence article on male hypogonadism.

- · Treatment of vasomotor symptoms of manopause
- · Treatment of genitourinary syndrome of menopause (previous known as STITUTE OF PHO vaginal and vilvas atropy)
- · provention of osteoporosis:

Administration

APURMET & SUITS Gunthapally (V), Abdullapurme, (1.1), There are numerous estrogen and progestogen R.R. Choices and they may be administarted orally or trans deamaily either through coom, putch, vaginal missors, or subdoman pollors sach of administration has unique benefits and disks DOU 16

AVANTHE INSTITUTE OF

controlled her controlled

oral astrogan: Any astrogen administered orally results to
increased activated protein -c resistance increasing the
otisk of a blood clot. oral estradiol also formation and
orapture of alleroscleration plague.

for blood clotting in negated.

Advosse effects

when studying the potential adverse effects of that the most of the most of the states comes from the women's Health Initiative.

Common France Costs Ale mark commons

received of hearicat

WHI THAI

This was a multiface fed trian including two double bind place to -controlled, randomized total of postmeno pausal hormone the eapy.

HRT and the broast

The CEELMPA com was discontinued carlied than expected due to an increased incidence of invasive breast cancer of 247. (HR=1.24) The CEE. Only asm exis not discontinued easily completed in 2004 and extended follow—"up of patients has continued by 11.8 years.

many types of lung injusty can result from medicines it is wuquy impossible to predict who will develop lung disease from a medicine

Types of lung problems or dreases that may be caused by medicines include.

- Allergic reaction asthma hyper sensituly proumonitis, or east nothillic proumonia
- · Blooding into the lung all sacs, called alveli.

 (alveolar hemotrhage)

- eswelling and inflamed Hissue in the main passages that common one to the lungs (bronchitis)
- · Damage to lung tissue (interstitial fibrosis)
- ond destroy healthy body tresue such as doug- induced 14 pre
- · Ganulomatous lung disease- a type of inflamation in the ways
- · Inflammation of the lung all sacs (preumonitis or infiltration)
- · Lung voscullas cinflammation of lung blood vossels).
- · Lymph node swelling
- · swelling and isotherion (inflummation) of the clost good between the rungs (mediastinitis)
- · About al tuildup of fluid in the lungs (Pulmonary edema)
- obuildup of fluid between the layers of tissue that line the ungs and chest cavity (plousal effasion)
- · Abnormal pressure of the arteries that bring blood to the ungs (rulmonary hypertension)

many medicines and substances are know to couse jung disease in some People. These include's

Antibiotics, such as nitrofusantion and sulfa dougs

Ment

- · Heard modicines, such as amio dozon 6
- · Chemotherapy abugs such as bleomycin, cyclophosphamide and methotrexate

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wed

· Immuno therapy obugs

30(K 2)

· storg + dougs.

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R.K. Dist. Talangana

, what is osteopoxosis

osteopodosis is a disease that weakens your bones. It makes
your bones thinner and less dense than they should be people
with osteopodosis are much more likely to expedience book en
bones, your bones are wally dense and shong beneugh to
support your weight. and absorb most kinds of impacts. As
you age, your bones naturally lose some of their density
and their ability to begrow thomselves. If you have osteoporous
your bones are much more fragile than they should be and.

"One much weaker, most people don't know they have osteoporous
porosis until it causes them to break a bone. Osteoporous
can make any of your bones tikely to break but the

- · HIPS (hip fourhouses)
- · woists
- · spine (fractured verte bae)

The seenest a healthcoire provider diagnoses asteoporosis

the less likely you are to experience bone traduses. Ask a

healthcase provider about checking your tene density, especially.

if your's over 65, have had a tone fracture after age

50, or someone in jour biological remity has osteoporosis.

How common is osteoporosis?

1811 d . 10 46 . 10

(Hant outsin) (and dan

· Busings trideup of

mosé than so million people in the U.S. 1846 with esteopososis esteopososis to common in people over so. Expents continuede that half of all people assigned temple at birth ours.

In 4 people assigned male at birth over so have esteopososis.

studies have found that 1 in 3 adults over 50 who don't have coste operasis yet have some degree of bone esteoporosis.

5)

Glacioma is a group of diseases involving he offic nerve and associated structures, which is characterized by progressive visual field loss and lypical changes of the bette neare head CONTH). The only known treatment of the diseases in reduceton of Intraocular pressure (IOP), which has been shown to reduce 9 laucoma pro- grossion in a various of large-scale clinical bials. Nowadays, a selatively wide axy of topical antiglau com dougs is avoilable, including prostaglandin analogues, carbonic anhydrase inhibitors, betg-receptor antergonists, eddenessic agonists and possessy mpetho mimetres. In clinical soutine this allow for individualized treestment taking risk factors, effect and safety into accound a mesor chanteness is related nce to the sustained related to adherence may be minimize this problem but are not available for clinical routine we Aroker hope asises from non-IOP- related been ment concept.

Back ground

GLAUCOMA REFERS TO A GROUP of muth tackotical offical newscrature associated with progressive 1033 of setual sangulous caus (AGCs) leading to a characteristic patheon of visual field loss. Although there is seneral agreement that increeses introcactually prossure (IOP) is the most portant risk factor for consect and progressive of the disease it is by far not the only risk factor. IOP secticity on the mainstay of standard coma therapy. The devices are overly as a standard took on such standard of the same of the same of the current stands of pharmaco therapy of standard and astandard took on the same of the sam

challenges in bandahng such stagtegres in R.R. Delimplenegra convado

Abstract with marked to get the secret and second topathogensis of types 2-diabetes is complex and still pastiquy known. Its ettology is deleamined by the interaction of genetic nd envisonment factors. The genetic contribution is impostant but as a polygonic odigin. Obsestly, especially when for mass is referably located in the abdomen is the mein predisposing lector or type 2 tiabetes and almost 80%, or diabetic patients are were weight or obese. The diabetogenic reflect of obesity is luis to the capacity of excessive tat mass to induce or 1998quate insulin desistance. Increasing lack of physical actualy is also a contributing factor as in it increases insulin restationed as far as it increases insulin pathophysiology is concerned the development of lype 2 diabetes yesuls from the coexistence of abnormalities of insulin secretion and insulin action. Insulin secretary dysturction, whose underlying mechanism romeins. Possy understood is characterized by a relative defect in Circulating Insulm action is located in the 18462 (inexpased heratic guesse productions, in the skeletal muscle (decreased muscular glucose uptake) and in the adipose kissue. machanism remains peoply understood is characterized by a rolative defect in circulating tosulln levels of variable severity resistance to insulin action is located in the liver (morouged hopatic -glucose production) in the skeletal muscle (discreased muscum glucose uptake) and in the adipose HISSUE (Exagglosated 17 polysis with Glovated Phismas from the acids). Changes In 186-style habits.

this stylend in auditoria

ASSIGNMENT-I

Name : Shreya

Class: pharm D-IT year

Roll No; 29 GNIT0021

subject: pharm a cotherapeatices-I

Topic : Drug profile.

It is an Antineoplastic agent used in The treatment of wide variety of concers.

Mechanism of action;

The mechanism of action of methodrexate are complex peveloped as a folic acid analogue methotrexate enhabits purine and pyrimidine synthetis about accounts for the Efficacy in the Therapy of cancer as well as for some of 914 toxicities.

Indications; methotrexate as enderated in the management of selected adults with severe, active rheumatord arthritis (ACR criteria) or children with active -Dolanticopa - conse 2 non a proposad astroposa who have had an ansofficient therapeotic Posponse to or are intolerant of an adequate trail of forst line therapy.

Contraindication;

patrent with propasic or thounable orthists with alcholism, alcholic liver disease or other chronic river disease should not receive methotrerate. Adverse effects's

- Black, tarry shools
- Blood in urine
- Increased Aleart beat
- 9tchening rash
- stomach pain

Drug-Drug enteraction.

- Acitretin + methotrexate

a citretin & methotrexate either encreases toxecety of the other by pharma codynamic synergism Contraintecated REEK of addotive hepatotoxicity.

in the forestories in some

- Lefturomide + methotrexate.

Groverson.

reflunomide encrease toxicity of methotrerate by pharmacodynamic synergism Awid Kilternate drug Additive hepatoloxicity pancy to pensa.

I will are as with the first of the stand of the stand

the state of the state of the state of

metformin es me ferst lene medication for treatment of type 2 deabetes particularly en people who are over weight

-It Ps sold under brand rage alcophage.

mechanism of action;

The centre of metformin's mechanism of action Ps the alteration of energy metabolism of cell wettornin exerts its brenglished glocote lowering effect by enhabiting hepatic gluconeogeness, and opposing the action of glucogan.

Indications, - The Philocothons encludes gestational diabetes. nanagement of antipsychotic anduced wight goin type-2 deabeted prevention of polysystic ovary syndrome (pcos)

contraindication,

- Penal dystanction
- condestère cargéac faiture néeques ques préatmens
- Imposved hepatec function

Adverse Effects;

- Navsea
- stomachache
- loss of appelite

Drug - Orug Enteraction?

- metformin + ensulin aspart.

metformen, ensulen aspart Either encrease effects. of the other by pharmacodynamic synergism use monstor. dosage adjustment may be required when 19scontinuing antidopatetic agents.

3) METHIMAZOLE'S.

It as also known as manazole. It a oreg to treat hyperthy roidism The encludes araves disease, Toxic multinodular gotter and Thyrotoxic. Creses.

Mechanism of action;

methinazole may also interfere with oxidation of Podede eon and todotyrosyl groups. Eventually. Thyroglobulen gets depleted and circulating Thyroid Hormone level decrease It may also nelp to control derease by affecting the overall shane system.

Prevent and treat navsea vomiting, and dissiners caused by motion sickness.

mechanism of action ;.

It is a first generation antibectamine It also has central anticholinergic actions me blocking actions on these receptors give medizine blocking actions on these receptors give medizine the antientic and antientico properties.

Indications's

It is used to manage and treat wasked vorniting and dissiness caused by motion sickness and vertigo.

meclione belongs to a drug class called antihistamines, which are often used to treat allergies.

contraindications'

patient should avoid alcoholic beverages
Tranquilizers and sedative unile taking
meclishe due to increased visk of CNS
depression.

Indication;
methonarole es used to treat hyperthyroidem
a condition. That The Thyroid gland produce too
much thyroid Hormore.

- It also taken before thyroid surgery or radioactive poline therapy.

Contraindication;
methonorole contraindicated of there is
etypersenstivity to the drug or any of its component
- It is relatively contraindicated during pregnancy.

Adverse Effeck's

- chest poon
- 60B.
- defteculty en breaking
- 69229ness
- aeneral Feeling of discomfort.

Drug Enteraction:
methémazole + cadexomer, rodinated glycerol
Podene.

"Adverse Effects's

- cough
- drowsiness
- Neves, Planny, skin rash
- unusal tiredness or weakness

Drug interactions's

meclizine can interact with sleep medications
Benzodia sepines and allergy medications like
Benzodia sepines and allergy medications like
Benddygl. It can also interact with opiods
dronabinol and alcohol.

S) MUPIROCIN'S

Mupirocin es a topical Antibiotic.

Mechanism of action i

The drug is a unique antimicrobial agent because of its structure and mechanism of action mupirocen apparently exerts its antimicrobial activity by peversibly publishing is oleveyl-transfer DNA There by entititing bacterial protein and DNA synthesis.

Indications;

mupirolin topical cream & used to treat secondarily Infected travmatic stin lenons due to specific bactera.

It is used to treat emperiogo.

Contraindications;

prolonged use of mupirocim is not recomended because of possible growth of pessistant organism including tungs.

mupirocin side Effects;

- Billstering, peddening of skin
- Canker sores
- cracked dry
- scaly skin
- soves, vicers

ASSIGNMEN-I

Name: B. Krupakar houd

RAILIND : 28 MITODES

subject: pharmacotherapeutices-I



Flonacin.

Generic name: Oflonacin Brand name ; ocution

Back ground:

A Synthetic fluorquinolone antibiotic, antibacterial agent that inhibits the Supercoiling admity of bacterial DNA gyrase, harting DNA replication

Indications ;

for the trealment of injection (nespiratory track, kidney, Skin, Soft tissue, UTI) wrethral and the Ceruical gonosthoea.

Pharma Codynamics :

Oftonacin is a Quinolone / fluroquinolone antibiols Oftonacin is backericidal and its mode of action depends on blocking of bacteria DNA replication by binding itself to an enzyme called ONAgyrase Which allows the intwisting required to replicated one onthe double helix into two.

Oflonacion is broad spectrum artibiolic that is active against both gram positive and negative bacteria

Mechanism of action : Oflanacin acts on DNA gypase and topoisoomerase IN enzymes which like human topoisomerase prevent like the encessive Superloiling of DNA during the replication or transcription by inhibiting their function and drug there by inhibits normal Cell. division Pharmokinetics : Absorption : Bioavairability of oflamacin in the tablet tomulation is appronimately 98%. Molme q distribution ; Protein binding: 32% metabolism + Hepalic Route of administ Elimination Oxatlanalin is mainly eliminated by renal Secretion The 4-8% of Otlanacin is eliminated by feles Adverse effect; Convulsion Annious Hearing depressed Severe headache

Drug-Drug interaction:

- 1. Acelotonac.
 - Acelofenac may increase the newroencitatory actility of Otlonacin.
 - 2 Acemetacin

Acettam Acemetacin may increase the neuroexcitory achievity of oftonacin.

3. Acyclouir

The encretion of Acyclouir can be decreased we combined with oftonacin

Pood interaction:

Limit cappeine intake

Take With on Without Jood

The absorption is majfected by food

Ondanselmon.

Generic name: Endanselvon

Brand name : Zotran. Zuplenz

Category:

Back ground :

A competitive serotonin type-3 receptor antagonist It is effective in the treatment of Nausea and Nomiting Caused by Cytotonic chemotherapy drugs including Cisplatin

has reported anioytic and neuroleptic neuron.

Indication:

In adults patient -

Orally administered ordansemon tablets and the Orally disintegrating tablets are indicated tor the Prevention of nausea and Momitting associated with emetogenic concer themotherapy.

In Pediatric Patient-

Ondanseton was effective and Well tolerated when given to children 4-12 yrs of age tor the treatment of post-Chemotherapy induced

Mausea and vomining In geriatic patients-Efficacy and tolerance of ondansemon Were a Similar to that Observed in young adouts for treatment of Post-Chemotherapy. clinical experience in the use of ondanserron in the prevention and treatment of postooperaline Nausea and Vomiting is limited & is not indicated for use of geriatic patient Pharmodynamic: Ondanserron is highly Specific and selective Seroroning 5-41 receptor antagonist hlith low affining for dopamine receptor. 10 cated on the nerve terminal of the regus. Mechanism & action: Ondansemon is a selective antagonist of the Scrotonin receptor subtype 5-473. Cytotonic Chemotherapy and radiotherapy are associated with the release of serotonin . From enterochromattin cells of the small intestine ondansetron may block the initiation of this refler. activation of Vagal afferents may cause

Central release of Schotonin from the Chemorece -plor higger Zone of the rel area postrema. Pharmokinetics : Absorption : Ordanserron is absorbed from gasmintestinal tract and indergoes some limited first pass meta -bolism. Volume of distribution : Volme of dishibution of ondanselmon has been recorded as appronianately 160 L. Metabolism + In vino metabolism has been shown that order Setron is substrate human hepatic Cytochnome pur enzyme including CYPIA2 CYP3A4/CYP206. Route of Edimination: Orally or IV administration, ondansteron is entensively metabolised & excreted in wrine and tcas. Adverse effects: Heart rhyth dizziness Blurred resign

Anniety

Dwg-Dwg intuaction:

1. Benzodiazepine:

The risk or severity of adverse-effects Can incleased When ondansemon is Combined with 1,2 Henzodia Zepine

2. Acebutol.

The metabolism of ondanserron can be decreased when combined with acepular

3. Aceta zolamide.

The risk of severity of adverse ejects can inceeased when ordansemon is combined with acutazolamide

Food interactions:

Take hith or without food The absorption is majurated by food

Oxamniquine

Generic name : onamniquine Brand name:

Category :

Back ground :

An anthelmintie With Schistosomicidal activity against Schistosoma mansoni

Onamniquine causes warms to Shift from the mesenturic Veins to the liver where the feale worms are retained. Temale worms retern to the mesentary.

Indication :

for treatment of Schistomicidal Caused by Schistoroma mansoni

Pharmodynamics:

Onamniquine is a anthelmintic With Schistosomi - cidal admity against Schistoma marsoni but not-Other Schistoma

Orlamniquine Causes worms to shift from mesery - hic veins to the liver wherfelhale worms to mesentury but can no longur egg release

Mechanism of action: Dramniquine may associate With an irreversible inhibition of nucleic acid metabolism of Parasites. Schistosome Suifobransfirase enzyme Converts Oxamniquine into a ester. Subsequently the ester spantaneously dissociate Vesuling electrophilic rectant is Capable of alkylation of schistosome DNA Pharmokinetics: Absorption :- Well absorbed orally Metabolism - probably hepatic Elimination - wrine, feces Adverse effects :-Headache dizzines Drowsiness Momiting Abdominal Pain decreased appetili

Adre Drug interaction:

- 1. Chlorzonazone
 - The metabolism of Chlorzonazone can be decreased When Combined with Gramniquine
- 2. Clevidipine
 The metabolism of clevidipine can be decre
 -ased when combined with onamniquine
- The metabolism of Alonotriptan can be dorreard when combined with onamniquine

omtetraughtine is Uplophilic and easily pass Sit of nibosome. this binding is ouversible in nature and precuent the amino actyl TRNA from binding to Lundus Jomosodi 205 Mt of 8 brid fi. noilplement Onytchacycline inhibits cell growth by inhibiting Mechanism of action : to heat many injection common and now - oud, omtehacycline like other tetracycline is wed injection it was the Second of tetracycline to discov due to the actuity against such a wide range of the Onytchacycline is known a broad speckin artibiotic Framodynamic: - ctae, and diploclocus prumoniae. Pasteurella pestis, Eschusichia coli, Heamophilus influ mi cro-organism indudes mycoplasma pramonias Coursed by variety of gram positive and negative Indication: onytetracycline is indicated for injecting Morgan biotic used to treat a wide variety of backuish Onyternacycline is a tetracycline antifact ground :-Generic name - omtechacycline Brand name - Terramycin. ONYtchacycline Drythacy cline

the Cell membrane, Passively diffuse through pour Channels in the bacterial membrane

Adverse effects may includes stomach or bowl upset and varely allergic reactions, very varely headache and vision problems may be sign of dangerous intracranial hypertension.

Drug-Drug interaction

1. Acamprosate

The excretion of a camprosate can be dayeased When Combined with oxytchracycline

2 Acyclouir.
The encretion of Acyclouir can be decreased when it is combined with onytetracycline

有"通过"。" 计主 海豚 (1)有" 网络 "高野海海海海"。"

grade profession in the contract of the contract of

OMEPRAZOLE

Genichame : Omeprazole.

Brand name: - Losec, omedamon, omesec

Category: Proton pump inhibitor

Background :

Originally approved by FDA in 1989.

Omeprazole is proton pump inhibitor used to treat gastin

-Cacid related diseases.

⇒ This disorder may include gastroesophageal reglux disease

and Other diseases like peptic www.

=) Omeparazole is generally effective and well tolerated Promoting its popular use in children and adults.

Indication =

Omeprazole according to FDA label is a proton pump inhibitor [PPI] used for following purpose

- 1. Treatment of active duodenal ulcur in adult
- 2. Eradication of Helicobacter Pylon
- 3. Treatment of active benign gastric ulcor in adults.
- 4. pathologic hypersecretory conditions in adults.
- 5. Treatment of symptomatic gashoesophegeal replux disease (GERD) in patient 1 year of age and older.
- 6. Treatment of erosive esophagitis

Pharmacodynamic: 3105A993MO

Effects on gashic acid secretion :-

This drug decreases gastric acid secretion after oral administration. The inhibitory effect of ompraxole on acid secretion increases with repeated once-daily, dosing, reaching a platae after the four days.

Effect on Serum gastrin :-

Serum levels increased during the 1-2 weeks of daily admini--Stration of thenapeutic dose of omeprazole

The increased CGA levels may leads to positive vesuit in diagnostic Studies for neuroendourine timors.

Other effects:

Systemic effect of Omeprazole in the Central nervous system Cardiovascular and respiratory system have not found to date.

Omeprazole given in oral doses of 30 or 40mg for 2-4 week

=) Hydrochloric acid Secretion into gastric lumen is a Process regulated mainly Ht lk+ Alpase of the.

Proton pump enpressed in high quarilities by parietal Cells of the Shomach

Alpase enzyme on all membrane that faciliates hydrogen and kt enchange through the all.

Result in exprusion of potassim and tormation of the. HCI [gashic acid]

Pharmakokinetics: Omeprazole delayed release capsules Contain enteric Coated granule tormation of omeprazole Absolute bioavailability is approximately 30-40 at doses the bioarrailability of omeprazole increases slightly upon repeat -ed administration of omeprazole delayed release Capsules. # Volume of dishibution Appronimately 0.3 Llkg, corresponding to the Volume of entra Cerlular Water # protein binding : -) Appronimately 01.31 95% bound to human plasma protein # Metabolism: Omeprazole is heavily metabolised in liver by cytochrome puso (CYP) enzyme system main part of ils metabolism depends on polymorphorphically. After a single dose oral dose q a buffered solution of the Omeprazole, negligible amont q inchanged drug were encreted in wrine # Adverse effects: In Case of Ollordose include Confusion Browsiness Blurred Vision. Tachycardia Mausea Hushing Headhch Dry mouth.

- 1. Warfarin
- Thance the anticoagulant eject of wartarin, as a result of CYP2C19 enzyme inhibition
- 2. Albendazole
- > metabolism is decreased



80-90%

90-100%

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R.R. Dist. Telangana



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De	partment:				PHARM D				
	Co	urse Outco	me Atta	inment - Int	ternal Assess				
Name of th	e Faculty:	BE EVAN	GILEEN	Academic `	Year:	2020	-21		
Branch & S	Section:	PHA	RM D	Exam:		MID	- II		
Course/Sub):	PT	T-1	Year/Semis	ster:	II			
		CO2	C02	C02	C02	CO3	C03	C03	C03
SLNo	Roll Number					Question No.			
21.140	Rou Number	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8
Maximum N	larks	5	5	5	5	5	5	5	5
1	19GN1T0001	5		4	5	4		5	5
2	19GN1T0002		4	5	4	5		4	5
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4	19GN1T0004	<u>i i</u>	4	<u> </u>	4	5)))	4
5	19GN1T0005		5	5	5	5	4		3
6	19GN1T0006	5	3		5	5		4	5
7	19GN1T0007	4		4	5	5		4	5
8	19GN1T0008	4	5	5	4		5	5	
9	19GN1T0009	5	4	5	5	5	4		
10	19GN1T0010	4	5		5	3	5	5	
11	19GN1T0011			4	5	5	4	5	4
12	19GN1T0012			5	4	5	5	4	4
13	19GN1T0013	4	5	4	5		5		4
14	19GN1T0014	5	4	5	5	5	4		
15	19GN1T0015	5		4	5	5	4		4
16	19GN1T0016	4		4	5	5		4	5
17	19GN1T0017		5	4	5	4	4	5	
18	19GN1T0018	5		5	5	4	4		4
19	19GN1T0019		4	5		5	4	4	5
20	19GN1T0020		5	5		4	4	4	5
21	19GN1T0021		4	5	4	5	5	4	
22	19GN1T0022	5	5	4	5	4		4	
23	19GN1T0023	4	5	5	4	4	5		
24	19GN1T0024	5	5	4		5	4	5] 4
25	19GN1T0025		4		5	4	5	4	
26	19GN1T0026		4	5	5	4	4	5	
27	19GN1T0027		5	4	4		5	5	4
28	19GN1T0028			4	4	5	5	5	4
29	19GN1T0029	5		4	5	5	5	3	5
30	10GN1T0030		5	4	5		5	5	A.
lo of stude	nts attempted	24	23	27	20	19	23	22	22
	Question wise	5	5	5	5	5	5	5	5
arget 50%		2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
	ents above 50%	24	23	27	20	19	23	22	22
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Attainment		3	3	3	3	3	3	3	3
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Atta	inment table	Γ							
70-80%	1								
80-90%	2								
90-100%	3								







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. PRINCIPAL Avanthi's Institute of the armaceutical Gunthapally (V) Hayath Nagar Ranga Reddy Dist.



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Gunthapally (V), Abdullapurmet (M), R.R. Dist., Near Ramoji Filmcity, Hyderabad - 501 512. Department: PHARM D Course Outcome Attainment External Examination BE EVANGILEEN Name of the Faculty: 2020-21 Academic Year: Branch & Section: PHARM D **EXTERNAL** Exam: Course PT-I Year/Semister: H TOTAL(Max. Score S.NO. HALLTICKET NO Marks) 19GN1T0001 47 2 19GN1T0002 46 3 19GN1T0003 46 4 46 19GN1TUUU4 43 5 19GN1T0005 6 19GN1T0006 39 7 45 19GN1T0007 8 53 19GN1T0008 9 19GN1T0009 52 53 10 19GN1T0010 11 19GN1T0011 53 12 19GN1T0012 35 53 13 19GN1T0013 14 19GN1T0014 53 33 15 19GN1T0015 16 19GN1T0016 61 17 48 19GN1T0017 52 18 19GN1T0018 19 34 19GN1T0019 20 19GN1T0020 56 21 35 19GN1T0021 22 19GN1T0022 42 23 19GN1T0023 53 35 24 19GN1T0024 47 25 19GN1T0025 37 26 19GN1T0026 27 19GN1T0027 44 28 46 19GN1T0028 29 36 19GN1T0029

> 43 30

70 30

100.0

3

Attainm	ent table
70-80%	- 1
80-90%	2
90-100%	3

19GN1T0030

30

No. of students secured > 26 marks

Overall External Attainment level

No. of students who attempted the subject Max. Marks

Percentage of students secured > 26 marks

- PRINCIPAL

Avanthi's Institute of Pharmaceut a Science Gunthapally (V), Hayath Nagar (A)





Department:	PHARM D							
	Overall Cours	e Outcome Attainment						
Name of the Faculty:	BE EVANGILEEN	Academic Year:	2020-21					
Branch & Section:	PHARM D	Exam:						
Course:	PT-I	Semister:	II					

Course Outcomes	1st	2nd	3rd	Internal	University	Overall Attainment
Course outcome - 1	3	-	-	3	3	3
Course outcome - 2	3	3	-	3	3	3
Course outcome - 3	-	3	3	3	3	3
Course outcome - 4	-		3	3	3	3
Averag	12			3	3	3

OVERALL ATTAINMENT OF THE SUBJECT = 0.25*INT + 0.75*EXT

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Avanthi's Institute of Pharmaceutical Sciences,
Gunthapally (V), Hayath Nagar (M),
Ranga Reddy Dist.





COURSE OUTCOMES

						CO	UKSE C	UICO	MES					
CO1	1		on with t of disc		vious ye	ar, this	subject	would l	nave co	ntinued o	lescribin	g about th	e different	drugs used
CO2		tudents		have le	arnt abo	ut drugs	used to	cancer	, inflam	mation,	respirato	ry system	, GIT, imm	une syster
CO3	They	would	have un	derstoo	d the pri	nciples	of anim	al toxic	ology a	nd bioas	say proc	edures.		
CO4	They cycle.		have le	arnt in d	lepth kno	owledge	on cell	, macro	molecul	les, cell	signaling	, DNA re	plication an	d cell
							CO-PO	Mapping	3					
60	POI	PO2	PO3	PO1	PO5	PO6	PO7	POS	PO9	PO10	PO11	PSO1	PSO2	PS03
COI	2	2	3	2	3	2	3	3	3	3	3	2	2	2
CO2	3	3	2	3	3	2	2	2	3	2	3	3	3	3
CO3	3	3	3	3	2	2	2	3	3	3	3	2	3	2
CO4	2	2	2	2	2	3	3	2	2	2	3	3	2	3
CO avg(M)	2.5	2.5	2.5	2.5	2.5	2.25	2.5	2.5	2.75	2.5	2.5	2.5	2.5	2.5
Attainment _evel*	2.5	2.5	2.5	2.5	2.5	2.25	2.5	2.5	2.75	2.5	3	2.5	2.5	2.5



- PRINCIPAL Avanthi's Institute of Pharmaceutical Sciences Gunthapally (V), Hayath Nagar (M), Ranga Reddy Dist.

				AVANTE	HI GROUP INSTIT	UTIONS				
- 34				FACULTY MON	THLY PERFORM	ANCE REPORT		-		
Name	of the Faculty: 6 - Sway	na					Month: Fe	ь 'aoa		
Depart	0,1700	lical c	hemisky	111						
College	-Avanthi Insuti	the of t	haemai	evices sc	Syllabus Detai	le .	T		T	
5.No	Subject Name	Year/ Semister	Classes Held in this month	Pervious month Syllabus/ Units completed	Syllabus / Units completed in this month	Syllabus / Units completed from the beginning of the semister to till this month.	No. of Classes required to complete the Syllabus	No. of Tests Conducted in this month	No. of Student Phone calls made	No. of parents visited in this month
1	phaemaceulia	IIT.	8	4.5	0.5 und	5 units	_	-	_	
	beganic chemistry-1)				0.50					
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)	Strength:			-,	S No		ime of the subje		Pass %
		No. of irregula	ir Students:			1	1146	ine of the subje		1 833 76
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	G SHOWS		-	HOD DON	A	Vanthi's Institute Gunthapally (Principal PRINCIPAL of Pharmace	utical Science	and the second s	Director
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Departr College:	ment: Phaim D Avanthi Insti	tyte of	Phaym	aceutical	Sciences Syllabus Detail	ls				Ι
S.No	Subject Name	Year/ Semister	Classes Held in this month	Pervious month Syllabus/ Units completed	Syllabus / Units completed in this month	Syllabus / Units completed from the beginning of the semister to till this month	No. of Classes required to complete the Syllabus	No. of Tests Conducted in this month	No. of Student Phone calls made	No. o paren visited in mont
1	Mivro biology									
2	Pharma witical Bio-chemistry	1	15	04	01	05 ;	91	-	-	_
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Ž4	Clinical Pharma	y IV.	12	63	0)	04	988	_		-
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	Faculty			нор	S*13WELL*83	5/1	Principal - PRINCIPAL			Director

AVANTHI GROUP INSTITUTIONS FACULTY MONTHLY PERFORMANCE REPORT Month: June 2020 Name of the Faculty: Goswapna chemieley Department: phasmaceut col College: Avanthi Institute of phasmaceutice Sciences Syllabus Details No. of Classes Syllabus / Units No. of Classes Held Syllabus / No. of Tests No. of Student Year/ Pervious month required to completed from parents S.No Subject Name in this Units Conducted in Phone calls Semister Syllabus/ Units complete the the beginning of visited in this month this month made completed in completed the semister to till Syllabus month this month this month POC-I II 13 1.5 unite 28 2-5 und 1 lund 2 3 Medicinal chemidery III I 16 2-50 nts 3-5 Unite unit 16 5 6 Class: Last Semister Subjects taught and results Strength: S No Name of the subject Pass % No. of irregular Students. Class Incharge Details: Action Taken: 3 4 Sudents Attendence Registers Checked by Principal Yes / No: NSTITUTE DE & SHappas HOD Principal Director - PRINCIPAL Avanthi's Institute of Pharmaceutical Sciences Gunthapally (V), Hayath Nagar (M), Ranga Reddy Dist.



DATE: 23-06-2021

EXAMINATION BRANCH NOTICE TIME-TABLE PHARM D V-YEAR III MID EXAMINATIONS

Time: 1.30PM to 3.30 PM

DATE & DAY	SUBJECT					
29-06-2021/TUE	CLINICAL RESEARCH					
30-06-2021/WED	PHARMACOEPIDEMIOLOGY& PHARMACOECONOMICS					
01-07-2021/THU	CLINICALPHARMACOKINETICS& PHARMACOTHERAPEUTIC DRUG MONITORING					

P. Nagalejh - EXAMINATION BRANCH

HOD

PRINCIPAL

- PRINCIPAL

Avanthi's Institute of Pharmaceutical Sciences
Gunthapally (V), Hayath Nagar (M),
Ranga Reddy Dist.

COPY TO: 1) PRINCIPAL

2) ALL HODS

3)ALL STUDENTS

4)OFFICE

5) NOTICE BOARDS



DATE: 17-03-2021

EXAMINATION BRANCH NOTICE TIME-TABLE PHARM D V-YEAR II MID EXAMINATIONS

Time: 1.30PM to 3.30 PM

DATE & DAY	SUBJECT					
22-03-2021/MON	CLINICAL RESEARCH					
23-03-2021/TUE	PHARMACOEPIDEMIOLOGY& PHARMACOECONOMICS					
24-03-2021/WED	CLINICALPHARMACOKINETICS& PHARMACOTHERAPEUTIC DRUG MONITORING					

P.NOgough EXAMINATION BRANCH

HOD

PHARM

PRINCIPAL

COPY TO: 1) PRINCIPAL

2) ALL HODS

3)ALL STUDENTS

4)OFFICE

5) NOTICE BOARDS

- PRINCIPAL

Avanthi's Institute of Pharmaceutical Sciences Gunthapally (V), Hayath Nagar (M),

Ranga Reddy Dist.

BOULLAPURN

DATE: 08-12-2020

EXAMINATION BRANCH NOTICE TIME-TABLE PHARM D V-YEAR I MID EXAMINATIONS

Time: 1.30PM to 3.30 PM

DATE & DAY	SUBJECT					
14-12-2020/MON	CLINICAL RESEARCH					
15-12-2020/TUE	PHARMACOEPIDEMIOLOGY& PHARMACOECONOMICS					
16.12.2020/WED	CLINICALPHARMACOKINETICS& PHARMACOTHERAPEUTIC DRUG MONITORING					

P. Nagaegs EXAMINATION BRANCH

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Avanthi's Institute of Pharmaceutical Sciences
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Ranga Reddy Dist.

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DATE: 23-06-2021

EXAMINATION BRANCH NOTICE TIME-TABLE PHARM D IV-YEAR III MID EXAMINATIONS

Time: 1.30PM to 3.30 PM

DATE & DAY	SUBJECT					
29-06-2021/TUE	PHARMACOTHERAPEUTICS-III					
30-06-2021/WED	HOSPITAL PHARMACY					
01-07-2021/THU	CLINICAL PHARMACY					
02-07-2021/FRI	BIOSTATISTICS & RESEARCH METHODOLOGY					
03-07-2021/SAT	BIOPHARMACEUTICS & PHARMACO KINETICS					
05-07-2021/MON	CLINICAL TOXICOLOGY					
03-07-2021/SAT	BIOPHARMACEUTICS & PHARMACO KINETI					

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DATE: 17-03-2021

EXAMINATION BRANCH NOTICE TIME-TABLE PHARM D IV-YEAR II MID EXAMINATIONS

Time: 1.30PM to 3.30 PM

DATE & DAY	SUBJECT					
22-03-2021/MON	PHARMACOTHERAPEUTICS-III					
23-03-2021/TUE	HOSPITAL PHARMACY					
24-03-2021/WED	CLINICAL PHARMACY					
25-03-2021/THU	BIOSTATISTICS & RESEARCH METHODOLOGY					
26-03-2021/FRI	BIOPHARMACEUTICS & PHARMACO KINETICS					
27-03-2021/SAT	CLINICAL TOXICOLOGY					

P-Nagaegy Examination Branch

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Ranga Reddy Dist.

DATE: 08-12-2020

EXAMINATION BRANCH NOTICE TIME-TABLE PHARM D IV-YEAR I MID EXAMINATIONS

Time: 1.30PM to 3.30 PM

DATE & DAY	SUBJECT		
14-12-2020/MON	PHARMACOTHERAPEUTICS-III		
15-12-2020/TUE	HOSPITAL PHARMACY		
16.12.2020/WED	CLINICAL PHARMACY		
17.12.2020/THU	BIOSTATISTICS & RESEARCH METHODOLOGY		
18.12.2020/FRI	BIOPHARMACEUTICS & PHARMACO KINETICS		
19.12.2020/SAT	CLINICAL TOXICOLOGY		
	1		

P. Nagaeigh EXAMINATION BRANCH

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DATE: 23-06-2021

EXAMINATION BRANCH

NOTICE TIME-TABLE PHARM D III-YEAR III MID EXAMINATIONS

Time: 1.30PM to 3.30 PM

DATE & DAY	SUBJECT		
29-06-2021/TUE	PHARMACOLOGY-II		
30-06-2021/WED	PHARMACEUTICAL ANALYSIS		
01-07-2021/THU	PHARMACOTHERAPEUTICS-II		
02-07-2021/FRI	PHARMACEUTICAL JURISPRUDENCE		
03-07-2021/SAT	MEDICINAL CHEMISTRY		
05-07-2021/MON	PHARMACEUTICAL FORMULATIONS		

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DATE: 17-03-2021

EXAMINATION BRANCH

NOTICE TIME-TABLE PHARM D III-YEAR II MID EXAMINATIONS

Time: 1.30PM to 3.30 PM

DATE & DAY	SUBJECT	
22-03-2021/MON	PHARMACOLOGY-II	
23-03-2021/TUE	PHARMACEUTICAL ANALYSIS	
24-03-2021/WED	PHARMACOTHERAPEUTICS-II	
25-03-2021/THU	PHARMACEUTICAL JURISPRUDENCE	
26-03-2021/FRI	MEDICINAL CHEMISTRY	
27-03-2021/SAT	PHARMACEUTICAL FORMULATIONS	

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Avanthi's Institute of Pharmaceutical Sciences Gunthapally (V), Hayath Nagar (M), Ranga Reddy Dist.

DATE: 08-12-2020

EXAMINATION BRANCH

NOTICE TIME-TABLE PHARM D III-YEAR I MID EXAMINATIONS

Time: 1.30PM to 3.30 PM

DATE & DAY	SUBJECT	
14-12-2020/MON	PHARMACOLOGY-II	
15-12-2020/TUE	PHARMACEUTICAL ANALYSIS	
16.12.2020/WED	PHARMACOTHERAPEUTICS-II	
17.12.2020/THU	PHARMACEUTICAL JURISPRUDENCE	
18.12.2020/FRI	MEDICINAL CHEMISTRY	
19.12.2020/SAT	PHARMACEUTICAL FORMULATIONS	

D. Nagary L. EXAMINATION BRANCH

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4)OFFICE

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DATE: 23-06-2021

EXAMINATION BRANCH

NOTICE TIME-TABLE PHARM D II-YEAR III MID EXAMINATIONS

Time: 1.30PM to 3.30 PM

DATE & DAY	SUBJECT		
29-06-2021/TUE	PATHOPHYSIOLOGY		
30-06-2021/WED	PHARMACEUTICAL MICROBIOLOGY		
01-07-2021/THU	PHARMACOGNOSY & PHYTOPHARMACEUTICALS		
02-07-2021/FRI	PHARMACOLOGY-1		
03-07-2021/SAT	COMMUNITY PHARMACY		
05-07-2021/MON	PHARMACOTHERAPEUTICS-1		

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DATE: 17-03-2021

EXAMINATION BRANCH

NOTICE TIME-TABLE PHARM D II-YEAR II MID EXAMINATIONS

Time: 1.30PM to 3.30 PM

DATE & DAY	SUBJECT			
22-03-2021/MON	PATHOPHYSIOLOGY			
23-03-2021/TUE	PHARMACEUTICAL MICROBIOLOGY			
24-03-2021/WED	PHARMACOGNOSY & PHYTOPHARMACEUTICALS			
25-03-2021/THU	PHARMACOLOGY-1			
26-03-2021/FRI	COMMUNITY PHARMACY			
27-03-2021/SAT	PHARMACOTHERAPEUTICS-1			

D. Nagaugh EXAMINATION BRANCH

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DATE: 08-12-2020

EXAMINATION BRANCH

NOTICE TIME-TABLE PHARM D II-YEAR I MID EXAMINATIONS

Time: 1.30PM to 3.30 PM

DATE & DAY	SUBJECT
14-12-2020/MON	PATHOPHYSIOLOGY
15-12-2020/TUE	PHARMACEUTICAL MICROBIOLOGY
16.12.2020/WED	PHARMACOGNOSY & PHYTOPHARMACEUTICALS
17.12.2020/THU	PHARMACOLOGY-1
18.12.2020/FRI	COMMUNITY PHARMACY
19.12.2020/SAT	PHARMACOTHERAPEUTICS-1

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DATE: 01-09-2021

EXAMINATION BRANCH

NOTICE TIME-TABLE PHARM D I-YEAR III MID EXAMINATIONS

Time: 1.30PM to 3.30 PM

DATE & DAY	SUBJECT		
06-09-2021	HUMAN ANATOMY & PHYSIOLOGY	_	
07-09-2021	PHARMACEUTICS		
08-09-2021	MEDICINAL BIOCHEMISTRY		
09-09-2021	PHARMACEUTICAL INORGANIC CHEMISTRY		
11-09-2021	PHARMACEUTICAL ORGANIC CHEMISTRY		
13-09-2021 REMEDIAL MATHEMATICS			

P. Nogaeyh EXAMINATION BRANCH

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Avanthi's Institute of Pharmaceutical Sciences Gunthapally (V), Hayath Nagar (M),

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DATE: 02-06-2021

EXAMINATION BRANCH

NOTICE TIME-TABLE PHARM D I-YEAR II MID EXAMINATIONS

Time: 1.30 PM to 3.30 PM

DATE & DAY	SUBJECT
07-06-2021/MON	HUMAN ANATOMY & PHYSIOLOGY
08-06-2021/TUE	PHARMACEUTICS
09-06-2021/WED	MEDICINAL BIOCHEMISTRY
10-06-2021/THU	PHARMACEUTICAL INORGANIC CHEMISTRY
11-06-2021/FRI	PHARMACEUTICAL ORGANIC CHEMISTRY
12-06-2021/SAT	REMEDIAL MATHEMATICS

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Ranga Reddy Dist.



DATE: 03-03-2021

EXAMINATION BRANCH

NOTICE TIME-TABLE PHARM D I-YEAR I MID EXAMINATIONS

Time: 1.30PM to 3.30 PM

DATE & DAY SUBJECT			
08-03-2021/MON	HUMAN ANATOMY & PHYSIOLOGY		
09-03-2021/TUE	PHARMACEUTICS		
10-03-2021/WED	MEDICINAL BIOCHEMISTRY		
13-03-2021/SAT	PHARMACEUTICAL INORGANIC CHEMISTRY		
15-03-2021/MON	PHARMACEUTICAL ORGANIC CHEMISTRY		
16-03-2021/TUE	REMEDIAL MATHEMATICS		

P. Nagary L. EXAMINATION BRANCH

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

KUKATPALLY-HYDERABAD-5000 85 EXAMINATION BRANCH

II YEAR B.PHARM - I SEMESTER -R17, R16, R15, R13, R09 REGULATIONS-REGULAR/ SUPPLEMENTARY EXAMINATIONS MARCH-2021 TIMETABLE

T I M E:FN 9:45 AM TO 12:45 PM

DATE& DAY	R17	R16	R15	R13	R09
08-03-2021 MONDAY	Pharmaceutical Organic Chemistry – II	Pharmaceutical Organic Chemistry – III	Pharmaceutical Organic Chemistry – II	Pharmaceutical Organic Chemistry-II	Pharmaceutical Organic Chemistry- II
10-03-2021 WEDNESDAY	Physical Pharmaceutics-I	Pharmacognosy I	Statistical Methods & Computer Applications	Statistical Methods & Computer Applications	Statistical Methods & Computer Applications
13-03-2021 SATURDAY	Pharmaceutical Microbiology	HospitaL and Community Pharmacy	Anatomy, Physiology &Pathophysiology	Anatomy Physiology &Patho physiology	Physical Pharmacy – I Dispensing and Hospital Pharmacy
16-03-2021 TUESDAY	Pharmaceutical Engineering	Pharmaceutical Unit Operations – I	Pharmaceutical Unit Operations –	Pharmaceutical Unit Operations - I	Pharmaceutical Unit Operations – I
18-03-2021 THURSDAY		Pharmaceutical Analysis-	Physical Pharmacy – I	Physical Pharmacy – I	Anatomy Physiology & Path physiology Health Education and Path physiology
	,		//www.	most *	freeze,

DATE: 15-02-2021

NOTE:

Sd/-CONTROLLER OF EXAMINATIONS

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

KUKATPALLY - HYDERABAD - 500 085 EXAMINATION BRANCH

IV YEAR B.PHARM-II SEMESTER -R16, R15, R13, R09 REGULATION-REGULAR/SUPPLEMENTARY EXAMINATIONS SEPTEMBER-2020 REVISED T I M E T A B L E

TIME→ FN: 10.30 AM TO 12.30 PM

course	R16	R15	R13	R09
16-09-2020 WEDNESDAY	Novel Drug Delivery Systems	Novel Drug Delivery Systems and Regulatory Affairs	Novel Drug Delivery Systems and Regulatory Affairs	Pharmacognosy III
18-09-2020 FRIDAY	Clinical Pharmacy	Pharmaceutical Biotechnology	Pharmaceutical Biotechnology	Novel Drug Delivery Systems and Regulatory
20-09-2020 SUNDAY	Pharmaceutical Biotechnology	Pharmaceutical Analysis II	Pharmaceutical Analysis II	Clinical Pharmacy and Therapeutics
25-09-2020 FRIDAY	Nano Technology Pharmacoepidemiology, Pharmacoeconomics and pharmacovigilance Medicinal Plant	Clinical Pharmacy Practice	Clinical Pharmacy Practice	Pharmaceutical Biotechnology
	Biotechnology			
27-09-2020 SUNDAY	Pharmacognosy – III	Human Values and Professional Ethics	Human Values and Professional Ethics	Medicinal Chemistry III

DATE:02-09-2020

Sd/-

CONTROLLER OF EXAMINATIONS

NOTE:

I). ANY OMISSIONS OR CLASHES IN THIS TIME TABLE MAY PLEASE BE INFORMED TO THE CONTROLLER OF EXAMINATIONS IMMEDIATELY II). EVEN IF GOVERNMENT DECLARES HOLIDAY ON ANY OF THE ABOVE DATES. THE EXAMINATIONS SHALL BE CONDUCTED AS USUAL

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Avanthi's Institute of Pharmaceutical Sciences
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Ranga Reddy Dist.

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

KUKATPALLY-HYDERABAD-5000 85 EXAMINATION BRANCH

III YEAR B.PHARM - I SEMESTER-R17, R16, R15, R13, R09 REGULATIONS-SUPPLEMENTARY EXAMINATIONS OCTOBER-2020

T I M E: AN: 2:30 PM TO 4:30 PM

DATE & DAY	R17	R16	R15	R13	R09
13-10-2020 TUESDAY	Medicinal Chemistry II	Pharmaceutical Microbiology	Pharmaceutical Microbiology	Pharmaceutical Microbiology	Pharmaceutical Microbiology
15-10-2020 THURSDAY	Industrial Pharmacy - I	Pharmaceutical Technology -I	Pharmacognosy – II	Pharmacognosy-II	Pharmaceutical Biochemistry
20-10-2020 TUESDAY	Pharmacology II	Pharmacology – I	Pharmacology – I	Pharmacology-I	Pharmacology - I
22-10-2020 THURSDAY	Pharmacognosy and Phytochemistry - II	Pharmacognosy -II	Pharmaceutical Technology – I	Pharmaceutical Technology–I	Pharmacognosy - II
28-10-2020 WEDNESDAY	(Open Elective-I) Generic Product Development	(Open Elective-I) Drug Regulatory Affairs			
	Green Chemistry Cell and Molecular Biology	Active Pharmaceutical Ingredient Process Development	Pharmaceutical Analysis-I	Pharmaceutical Analysis -I	Pharmaceutical Technology - I
	Cosmetic science	Entrepreneurship and Small Business Enterprises	WALLANDON NAME OF THE PROPERTY	*	6

MITTEN

DATE: 30-09-2020

NOTE:

(i).ANY OMISSIONS OR CLASHES IN THIS TIME TABLE MAY PLEASE BE INFORMED TO THE CONTROLLER OF EXAMINATIONS IMMEDIATELY INJUTU.COM(ii).EVEN IF GOVERNMENT DECLARES HOLIDAY ON ANY OF THE ABOVE DATES THE EXAMINATIONS SHALL BE CONDUCTED AS USUAL

Avanthi's Institute of Pharmaceutical Sciences
Gunthapally (A) Harriage Authority

CONTROLLER OF EXAMINATIONS(M),

DATE: 18.03.2021

B. PHARMACY PROJECT SHEDULE

For the academic year 2020-2021 all the IV B. PHARM II SEMESTER are here by informed that the students should undergo the course project as per the JNTUH R17 REGULATIONS.

S.NO:	REVIEW & ASSESSMENT	TOPIC	TENTATIVE SCHEDULE
1	PROJECT INITIALIZATION	FINALIZATION OF TITLE & PLAN OF WORK	29.03.2021 to 2.04.2021
2	REVIEW-1	REVIEW OF LITERATURE	05.05.2021 to 15.05.2021
3	REVIEW-2	METHODOLOGY & EXPECTED RESULTS	10.06.2021 to 17.06.2021
4	REVIEW-3	RESULTS & DISCUSSION, CONCLUSION	12.07.2021 to 22.07.2021

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Ranga Reddy Dist.

Committed to Excellence in Technical Education

Guidelines to students:

- 1. UG project work shall be carried out during IV Year II Semester.
- 2. Project will be evaluated for 100 marks. Student has to submit project work report at the end of semester.
- 3. Project shall be conducted in 3 Reviews
- 4. Project shall be completed before the commencement of SEE Theory examinations.
- For Project the departmental committee consisting of Head of the Department, project supervisor and a senior faculty member shall evaluate the project work.
- 6. The student is deemed to have failed, if he/she
- (i) Does not submit a report or does not make a presentation of the same before the evaluation committee as per schedule, or
- (ii) Secures less than 40% marks in the sum total of the CIE and SEE taken together.

7. A student who has failed may reappear once for the above evaluation, when it is scheduled again; if he fails in such 'one reappearance' evaluation also, he has to reappear for the same in the next subsequent semester, as and when it is scheduled.

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- 8. For conducting viva-voce of project, University selects an external examiner from the list of experts in the relevant branch submitted by the Principal of the College.
- 9. A student who has failed may reappear once for the above evaluation, when it is scheduled again; if student fails in such 'one reappearance' evaluation also, he has to reappear for the same in the next subsequent semester, as and when it is scheduled.

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80-90%

90-100%

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Do	epartment:				PHARM D				
	Co	urse Outce	me Atta	inment - Int	ternal Assessi				
Name of th	ne Faculty:	BE EVAN	GILEEN	Academic `	Year:	2020	-21		
Branch &	Section:	PHAF	RM D	Exam:		MID	- II		
Course/Su	b:	PT	-1	Year/Semis		II			
		CO2	C02	C02	C02	CO3	C03	C03	C03
SLNo	Roll Number					Question No.			
31.140	Ron Number	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8
Maximum M	Marks	5	5	5	5	5	5	5	5
1	19GN1T0001	5		4	5	4		5	5
2	19GN1T0002		4	5	4	5		4	5
3	19GN1T0003		4	5	4	5	4	5	
4	19GN1T0004	<u>i i</u>	4	<u>i</u>	4	5	5	5	4
5	19GN1T0005		5	5	5	5	4		3
6	19GN1T0006	5	3		5	5		4	5
7	19GN1T0007	4		4	5	5		4	5
8	19GN1T0008	4	5	5	4		5	5	
9	19GN1T0009	5	4	5	5	5	4		
10	19GN1T0010	4	5		5	3	5	5	
11	19GN1T0011			4	5	5	4	5	4
12	19GN1T0012			5	4	5	5	4	4
13	19GN1T0013	4	5	4	5		5		4
14	19GN1T0014	5	4	5	5	5	4		
15	19GN1T0015	5		4	5	5	4		4
16	19GN1T0016	4		4	5	5		4	5
17	19GN1T0017		5	- 4	5	Ą	4	5	
18	19GN1T0018	5		5	5	4	4		4
19	19GN1T0019		4	5		5	4	4	5
20	19GN1T0020		5	5		4	4	4	5
21	19GN1T0021		4	5	4	5	5	4	
22	19GN1T0022	5	5	4	5	4		4	
23	19GN1T0023	4	5	5	4	4	5		
24	19GN1T0024	1 5 1	5	1 4		5	4	5	4
25	19GN1T0025	1	4	1	5	4	5	4	
26	19GN1T0025		4	5	5	4	4	5	
27	19GN1T0027		5	4	4		5	5	4
28	19GN1T0027			4	4	5	5	5	4
29	19GN1T0028	5		4	5	5	5	3	5
30	19GN1T0029	-	5	4	5		5	5	A
	ents attempted	24	23	27	20	19	23	22	22
		5	5	5	5	5	5	5	5
	Question wise	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
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	ents above 50%	100.0	100	100	100.0	100.0	100	100	100.0
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Attainment	Level	3	3	1 3	3	3	3	3	-
	ainment table								
70-80%	1								
80-90%	2								







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De	partment:			PHAR	RM D				T
	Course Or	itcome At	tainment -	- Internal	Assessme	nts			
Name of	the Faculty:	BE EVA	NGILEEN	Academi	c Year:	202	0-21		
Branch &	Section:	PHA	RM D	Exam:		MII) - III		
Course/S	ub:	P	T-I	Year/Sen	nister:		П		
	i	COI	C01	COI	Cûi	COI	Cûí	C02	C02
SLNe	Roll Number				Questio	n No.			
DEITO	Kon rumber	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8
Maximum	Marks	5	5	5	5	5	5	5	5
1	19GN1T0001	5		4	5	4		5	5
2	19GN1T0002		- 4	5	4	5		4	5
3	19GN1T0003	-	4	5	4	5	4	5	
4	19GN1T0004		4	1	4	5	5	5	4
5	19GN1T0005		5	5	5	5	4	 	3
6	19GN1T0006	5	3	-	5	5		4	5
7	19GN1T0007	4		4	5	5	-	5	5
8	19GN1T0008	4	5	5	4	-	5)	-
9	19GN1T0000	5	1	5	5	5	4	1	<u> </u>
10	19GN1T0010	4	5	 	5	3	5	5	
11	19GN1T0011			4	5	5	4	5	4
12	19GN1T0012			5	4	5	5	4	4
13	19GN1T0013	4	5	4	5		5		4
14	19GN1T0014	5	4	5	5	5	4		<u> </u>
15	19GN1T0015	5		4	5	5	4	<u> </u>	4
16	19GN1T0016	4		4	5	5		4	5
17	19GN1T0017		5	4	5	4	4	5	
18	19GN1T0018	5		5	5	4	4		4
19	19GN1T0019		4	5		5	4	4	5
20	19GN1T0020		5	5		4	4	4	5
21	19GN1T0021		4	5	4	5	5	4	-
22	19GN1T0022	5	5	4	5	4		4	
23	19GN1T0023	4	- 5	5	4	4	5		
24	19GN1T0024		5	4		5	4	5	4
25	19GN1T0025	5	4		5	4	5	4	
26	19GN1T0026		4	5	5	4	4	5	-
27	19GN1T0027		5	4	4		5	5	1 4
28	19GN1T0028			4	4	5	5	5	4
29	19GN1T0029			4	5	5	5	3	5
30	19GN1T0030		5	4	5		5	5	4
	dents attempted	24	23	27	20	19	23	22	22
	s Question wise	5	5	5	5	5	5	5	5
Target 50%		2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
	dents above 50%	24	23	27	20	19	23	22	22
% of Stude		100.0	100	100	100.0	100.0	100	100	100.0
Attainmen	t Level	3	3	3	3	3	3	3	3
	inment table								1
70-80%						<u> </u>		1	1
80-90%									
90-100%	3								



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Ranga Reddy Dist.



AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES

(Approved by PCI, AICTE & Affiliated to JNTUH)





Gunthapally (V), Abdullapurmet (M), R.R. Dist., Near Ramoji Filmcity, Hyderabad - 501 512. Department: PHARM D Course Outcome Attainment External Examination BE EVANGILEEN Name of the Faculty: 2020-21 Academic Year: Branch & Section: PHARM D **EXTERNAL** Exam: Course PT-I Year/Semister: H TOTAL(Max. Score S.NO. HALLTICKET NO Marks) 19GN1T0001 47 2 19GN1T0002 46 3 19GN1T0003 46 4 46 19GN1TUUU4 43 5 19GN1T0005 6 19GN1T0006 39 7 45 19GN1T0007 8 53 19GN1T0008 9 19GN1T0009 52 53 10 19GN1T0010 11 19GN1T0011 53 12 19GN1T0012 35 53 13 19GN1T0013 14 19GN1T0014 53 33 15 19GN1T0015 16 19GN1T0016 61 17 48 19GN1T0017 52 18 19GN1T0018 19 34 19GN1T0019 20 19GN1T0020 56 21 35 19GN1T0021 22 19GN1T0022 42 23 19GN1T0023 53 35 24 19GN1T0024 47 25 19GN1T0025 37 26 19GN1T0026 27 19GN1T0027 44 28 46 19GN1T0028 29 36 19GN1T0029

> 43 30

70 30

100.0

3

Attainm	ent table
70-80%	- 1
80-90%	2
90-100%	3

19GN1T0030

30

No. of students secured > 26 marks

Overall External Attainment level

No. of students who attempted the subject Max. Marks

Percentage of students secured > 26 marks

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