



## Koneru Lakshmaiah Education Foundation

(Category -1, Deemed to be University estd. u/s. 3 of the UGC Act, 1956)

Accredited by NAAC as 'A++' Approved by AICTE ISO 9001-2015 Certified

Campus: Green Fields, Vaddeswaram - 522 302, Guntur District, Andhra Pradesh, INDIA.

Phone No. 08645 - 350200; www.kief.ac.in; www.kief.edu.in; www.kluniversity.in

Admin Off: 29-36-38, Museum Road, Governorpet, Vijayawada - 520 002. Ph: +91 - 866 - 3500122, 2577715, 2576129.

### KL College of Pharmacy

### 11<sup>th</sup> BOS Meeting Minutes

11<sup>th</sup> BOS meeting of KL College of Pharmacy was held on 15-03-2022 at Principal chamber R-309B from 02:00 PM onwards.

#### WELCOMED ALL THE MEMBERS

At the beginning of the meeting, the Chairman of the BOS welcomed all the members and briefly discussed about the progress of the College of pharmacy.

#### Following members are present

1. Dr. G. Chakravarthi, BoS Chairman
2. Dr. A. Prameela Rani, External Member
3. Dr. G. Kishore Babu, External Member
4. Dr. B. Jaya Kumar Singh, Member
5. Dr. M VV K Srinivas Prasad, Member
6. Dr. R. Subhakar Raju, Member
7. Dr N Buchi Naidu, Member
8. Dr. D. Prasannakumar, BoS Secretary
9. Dr. Pasupula Rajeswari, Member
10. Dr. A. Ankarao, Member
11. Dr. D SN BK Prasanth, Member
12. Dr. M. Narender, Member
13. Dr. J. Risy Namratha, Member
14. Dr K Sukeerthi, Member
15. Dr D Naresh, Member

*G. Chakravarthi*  
15/3/22  
PRINCIPAL  
Koneru Lakshmaiah Education Foundation  
(Deemed to be University)  
Green Fields, Vaddeswaram-522502  
Guntur District, Andhra Pradesh.

## AGENDA and RESOLUTIONS

### AGENDA ITEM-1

❖ To consider and approve the resolutions made by 10 <sup>th</sup> BOS conducted on 27 <sup>th</sup> October 2021	Approved and Recommended to Academic Council
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**Discussion:** The minutes of 10<sup>th</sup> BOS meeting conducted on 27<sup>th</sup> October 2021 were circulated among the BOS members and all the BOS members reviewed the 10<sup>th</sup> BOS minutes.

**Resolution:** It was resolved to approve the 10<sup>th</sup> BOS meeting minutes conducted on 27<sup>th</sup> October 2021. **(Annexure: I)**

### AGENDA ITEM-2

To consider and approve the resolutions made by 11 <sup>th</sup> DAC conducted on 08 <sup>th</sup> March 2022	Approved and recommended to Academic Council
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**Discussion:** The minutes of 11<sup>th</sup> DAC meeting conducted on 08<sup>th</sup> March 2022 were circulated among the BOS members and all the BOS members reviewed the DAC minutes.

**Resolution:** All the members reviewed the DAC minutes conducted on 08<sup>th</sup> March 2022 and all the members approved the minutes of 11<sup>th</sup> DAC meeting **(Annexure: II)**

### AGENDA ITEM-3

To consider and approve Structure, Syllabus and PDD for the A.Y. 2022-23 as per the PCI norms	Approved and recommended to Academic Council
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**Discussion:** As per the norms set by PCI the syllabus for B. Pharmacy, M. Pharmacy and Pharm. D programmes has to be followed without any deviations and all the members agreed to incorporate the Y22 structure as per the PCI norms for the A.Y. 2022-23.

**Resolution:** It was resolved to include the Y22 structures as per the PCI norms. **(Annexure: III)**

*G. Chellaboina*  
15/3/22  
PRINCIPAL  
KL College of Pharmacy  
Koneru Lakshmaiah Educational Foundation  
(Deemed to be University)  
Green Fields, Vaddeswaram-522502  
Guntur District, Andhra Pradesh.

#### AGENDA ITEM-4

❖ To consider the feedback received from various stakeholders	Approved and recommended to Academic Council
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#### Following is the feedback given by stakeholders on curriculum

- ❖ Mr. Karnati SVSS Sai Durga Prasad, bearing ID No: 190181034 gave the feedback to include Student Activity Center (SAC) activities in the curriculum. Upon discussion, it was recommended to add 'Autism' as an activity and included in the current curriculum as part of student activity
- ❖ Mr. Collins Kojo Darkwah, bearing ID No: 2101570005 gave the feedback to include MOOCs Courses. Upon discussion, it was recommended for students to enroll in the online MOOCs platforms like NPTEL-Swayam etc: for self-learning.
- ❖ Dr. A. Anaka Rao Emp Id: 5922 gave the feedback to provide infrastructure requirements for the new programs. Upon discussion, it was recommended to procure the advanced instruments for newly proposed programs.
- ❖ L. Ramya Sri of Y17 batch working as Hospital Pharmacist, Dr. Trinath Bharath Nursing Home suggested to include value added courses. Upon discussion, it was recommended to add the value-added courses in the curriculum like SAS, Pharmacovigilance etc.
- ❖ Dr. M Narender, Assistant Professor, KLEF has given the feedback to include a few MOOC courses in the curriculum. Upon discussion, it was recommended for students to enroll in the online MOOCs platforms like NPTEL-Swayam etc. for self-learning.
- ❖ Suri Babu J, Sr. GM, Pulse Pharmaceuticals Pvt Ltd., suggested to give more importance to Skill development and entrepreneurship / employability courses are required. Upon discussion, it was observed that the skill and employability courses are already implemented in the curriculum. Further, identification of entrepreneurship courses is in process. (Annexure: IV)

*G. Chellam*  
15/3/22  
PRINCIPAL  
KLE College of Pharmacy  
Koneru Lakshmaiah Educational Foundation  
(Deemed to be University)  
Green Fields, Vaddeswaram-522502  
Guntur District, Andhra Pradesh.

#### AGENDA ITEM-5

To Include the Student activity centers (SAC) activities	Approved and recommended to Academic Council
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**Discussion:** It was discussed that by including the SAC activities, students will be involved in participative learning and they will get better communication skills.

**Resolution:** It was decided to include the SAC activities along with the curriculum for AY 2022-23. **(Annexure: V)**

#### AGENDA ITEM-6

Review of the Y21 Structures and syllabus	Approved and recommended to Academic Council
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**Discussion:** As PCI framed syllabus should be followed for B. Pharm, M. Pharm and Pharm. D programmes, all the members reviewed the structures and syllabus followed for the AY 2021-22.

**Resolution:** All the members reviewed the Y21 structure and unanimously agreed the structure with the syllabus was followed without deviating from the PCI norms. **(Annexure: VI)**

#### AGENDA ITEM-7

To focus on skill development / Entrepreneurship / employability courses	Approved and recommended to Academic Council
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**Discussion:** By adding the above-mentioned courses into the curriculum, job opportunities for the students will be increased. Further, courses coming under entrepreneurship will enable the students to start their own enterprises.

**Resolution:** All members reviewed and identified the skill development / Entrepreneurship / employability courses from the curriculum (without deviating the PCI norms). **(Annexure: III)**

*G. Sheela Devi*  
15/3/22  
PRINCIPAL  
KL College of Pharmacy  
Koneru Lakshmaiah Educational Foundation  
(Deemed to be University)  
Green Fields, Vardheswaram-522502  
Guntur District, Andhra Pradesh.

### AGENDA ITEM-8

To focus on Value added courses	Approved and recommended to Academic Council
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**Discussion:** By adding the courses like Pharmacovigilance, Statistical Analytical Systems and Regulatory Affairs as certificate courses, students will gain the skills pertaining to those areas which in turn increases the employability options for the students.

**Resolution:** Value added courses like Pharmacovigilance, Statistical Analytical Systems and Regulatory Affairs were identified and all the members agreed to include the above in the Y22 structure. (Without deviating the PCI norms)

(Annexure: VII)

### AGENDA ITEM-9

To include the evaluation plans	Approved and recommended to Academic Council
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**Discussion:** Evaluation plans for all the programmes i.e. B. Pharm, M. Pharm and Pharm. D should contain all the components suggested by PCI.

**Resolution:** All the members reviewed the evaluation plans and unanimously agreed the same evaluation plan for all the courses in the curriculum.

### AGENDA ITEM-10

To include MOOCs Courses in the A.Y. 2022-23	Approved and recommended to Academic Council
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**Discussion:** By including the MOOC courses, students will gain the alternative route to finish a course in a particular programme.

**Resolution:** After reviewing the courses available in different MOOC websites, members agreed to choose the NPTEL-Swayam courses as a platform form for the MOOCs. (Annexure: VIII)

*G. Chellappa*  
15/12/22  
PRINCIPAL  
Koneru Lakshmaiah Educational Foundation  
(Deemed to be University)  
Green Fields, Vaddeswaram-522502  
Guntur District, Andhra Pradesh.

### AGENDA ITEM-11

To procure infrastructure requirements for the new programs.	Approved and recommended to Academic Council
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**Discussion:** The new programmes introduced i.e. M. Pharm and Pharm. D requires certain software to perform the experiments. By procuring these kinds of software, it would be beneficial for the students to review or monitor the safe usage of drugs in patients.

**Resolution:** All the members recommended for the purchase of new software for the Pharm. D program and M. Pharmacy courses.

### AGENDA ITEM-12

To include work in lieu in the Curriculum	Approved and recommended to Academic Council
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**Discussion:** By introducing the work in lieu in curriculum, students will get the opportunity to finish certain courses in alternative manner. For example, Students undergoing industrial training for a period of three months (Minimum of 80hrs) are considered as equivalent to the industrial pharmacy with L-T-P-S as 0-0-4-0. Students undergoing practical training in the hospital for a period of minimum 90hrs are considered to be equivalent to the pharmacy practice with L-T-P-S as 3-1-0-0

**Resolution:** It was resolved and all the members unanimously agreed to include the work in lieu in the curriculum from the AY 2022-23. **(Annexure: IX)**

### AGENDA ITEM-13

❖ To proposal of Pre-Ph. D courses revision	Approved and recommended to Academic Council
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**Discussion:** As per the concerns raised by various stakeholder's syllabus for Pre PhD could be revised as per the updates in the scientific fields.

**Resolution:** All the members agreed to change the syllabus for the Pre-PhD courses and agreed for the minor changes. **(Annexure: X)**

*G. Cheluvu*  
15/3/22  
PRINCIPAL  
KL College of Pharmacy  
(Deemed to be University)  
Green Fields, Vaddeswaram-522502  
Guntur District, Andhra Pradesh.

**AGENDA ITEM-14**

❖ To apply for the NBA accreditation	Approved and recommended to Academic Council
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**Discussion:** By applying for the NBA accreditation department standards will be enhanced.

**Resolution:** All the members agreed to initiate the NBA accreditation process for the B. Pharmacy program.

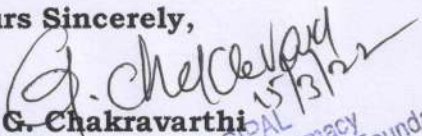
**AGENDA ITEM-15**

❖ To take the initiation of publishing the project work in peer reviewed journals	Approved and recommended to Academic Council
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**Discussion:** By publishing the research work in a good peer reviewed journal at the UG level will boost the research profile of the students and the quality of the research in the department can also be elevated.

**Resolution:** All the members agreed to publish the project work in peer reviewed journals to improve the quality of projects in under graduate level itself.

**Yours Sincerely,**

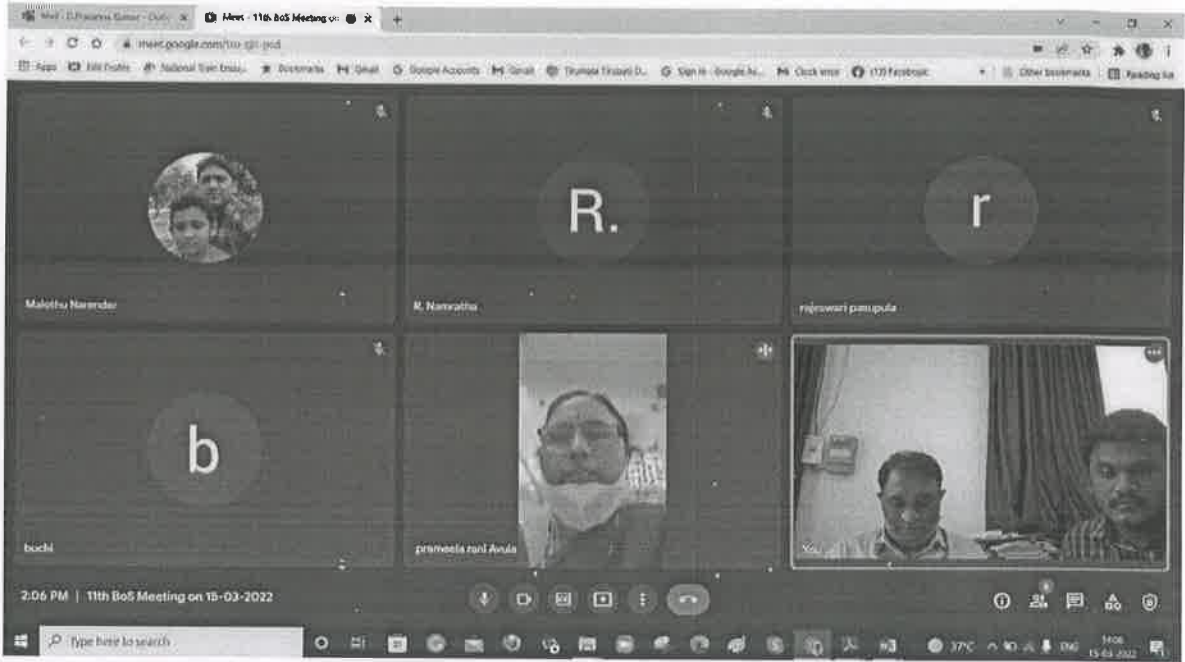
  
**Dr. G. Chakravarthi**

**BOS Chairman**

**K L College of Pharmacy, KLEF**

PRINCIPAL  
K L College of Pharmacy  
Koneru Lakshminarayana Educational Foundation  
(Deemed to be University)  
Green Fields, Vaddeswaram-522502  
Guntur District, Andhra Pradesh.

**Screenshots of 11th BOS meeting**



PRINCIPAL  
KL College of Pharmacy  
Koneru Lakshmaiah Educational Foundation  
(Deemed to be University)  
Green Feilds, Vaddeswaram-522502  
Guntur District, Andhra Pradesh.

*S. Chakravarthi*  
15/3/22



The following members have attended the 11<sup>th</sup> BOS meeting held on 15-03-2022 at from 2:00 pm to 4:00 pm, Venue: Principal Chamber, K L College of Pharmacy

S.NO	Full Name	DESIGNATION	Organization	Position of the meeting	Signature
1	Dr. G. Chakravarthi.	Professor & Principal	K L College of Pharmacy, KLEF	Chairman	
2	Dr. A. Prameela Rani,	Professor & Principal,	College of Pharmaceutical Sciences, ANU, Guntur	External member	
3	Dr. G. Kishore babu,	Head,	Laila Nutraceuticals Private Limited, Vijayawada	External member	
4	Dr. B. Jaya Kumar Singh	Advisor, R&D	KLEF	Member	
6	Dr. M VV K Srinivas Prasad.	Professor	KLEF	Member	
7	Dr. R. Subhakar Raju,	Professor	K L College of Pharmacy, KLEF	Member	
8	Dr N Bucchi Naidu	Professor	K L College of Pharmacy, KLEF	Member	
9	Dr. D. Prasannakumar	Asst. Professor	K L College of Pharmacy, KLEF	BoS Secretary	
10	Dr. Pasupula Rajeswari	Assoc. Professor	K L College of Pharmacy, KLEF	Member	
11	Dr. A. Ankarao	Assoc. Professor	K L College of Pharmacy, KLEF	Member	
12	Dr. D SN BK Prasanth	Assoc. Professor	K L College of Pharmacy, KLEF	Member	
13	Dr. M. Narender	Asst. Professor	K L College of Pharmacy, KLEF	Member	
14	Dr. R. Namratha	Asst. Professor	K L College of Pharmacy, KLEF	Member	
15	Dr K Sukeerthi	Asst. Professor	K L College of Pharmacy, KLEF	Member	
16	Dr D Naresh	Asst. Professor	K L College of Pharmacy, KLEF	Member	

15/3/22.  
PRINCIPAL  
KL College of Pharmacy  
Koneru Lakshmaiah Educational Foundation  
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Green Fields, Vaddeswaram-522502  
Guntur District, Andhra Pradesh.

## Annexure I

### Minutes of 10<sup>th</sup> BOS Meeting conducted on 27<sup>th</sup> October 2021

#### AGENDA ITEM-1

❖ To consider and approve the resolutions made by 9 <sup>th</sup> BOS conducted on 20 <sup>th</sup> May 2021	Approved and Recommended to Academic Council
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**Discussion:** The minutes of 9<sup>th</sup> BOS meeting conducted on 20<sup>th</sup> May 2021 were circulated among the BOS members and all the BOS members reviewed the 9<sup>th</sup> BOS minutes.

**Resolution:** It was resolved to approve the 9<sup>th</sup> BOS meeting minutes conducted on 20<sup>th</sup> May 2021.

#### AGENDA ITEM-2

❖ To consider and approve the resolutions made by 10 <sup>th</sup> DAC conducted on 20 <sup>th</sup> October 2021	Approved and Recommended to Academic Council
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**Discussion:** The minutes of 10<sup>th</sup> DAC meeting conducted on 20<sup>th</sup> October 2021 were circulated among the BOS members and all the BOS members reviewed the DAC minutes.

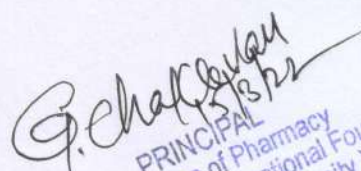
**Resolution:** It was resolved to approve the 10<sup>th</sup> DAC meeting minutes conducted on 20<sup>th</sup> October 2021.

#### AGENDA ITEM-3

❖ To consider and approve course structure and Syllabus for the A.Y. 2021-22 as per the PCI norms.	Approved and Recommended to Academic Council
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**Discussion:** As per the norms set by PCI the syllabus for B. Pharmacy, M. Pharmacy and Pharm. D programmes has to be followed without any deviations and all the members agreed to incorporate the Y21 structure as per the PCI norms for the A.Y. 2021-22.

**Resolution:** It was resolved to include the Y21 structures as per the PCI norms.

  
PRINCIPAL  
Koneru Lakshmaiah Educational Foundation  
(Deemed to be University)  
Green Fields, Vaddeswaram-522502  
Guntur District, Andhra Pradesh.

#### AGENDA ITEM-4

❖ To initiate a new programme Pharm. D from the A.Y. 2021-22	Approved and Recommended to Academic Council
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**Discussion:** By introducing a new i.e. Pharm. D will provide the necessary skill set to practice pharmacy in various sectors of both hospital and pharmaceutical industries.

**Resolution:** All the members agreed to initiate new programme Pharm. D form A.Y. 2021-22 and detailed programme structure is given below.

#### Programme structure of Pharm. D

S No	Course Code	Course Title	Category	L-T-P-S	Offering Year
1.	21PY6101T	Human Anatomy and Physiology	PCC	3-1-0-0	I Year (2021-22)
2.	21PY6101P	Human Anatomy and Physiology	PCC	0-0-3-0	I Year (2021-22)
3.	21PY6102T	Pharmaceutics	PCC	2-1-0-0	I Year (2021-22)
4.	21PY6102P	Pharmaceutics	PCC	0-0-3-0	I Year (2021-22)
5.	21PY6103T	Medicinal Biochemistry	PCC	3-1-0-0	I Year (2021-22)
6.	21PY6103P	Medicinal Biochemistry	PCC	0-0-3-0	I Year (2021-22)
7.	21PY6104T	Pharmaceutical Organic Chemistry	PCC	3-1-0-0	I Year (2021-22)
8.	21PY6104P	Pharmaceutical Organic chemistry	PCC	0-0-3-0	I Year (2021-22)
9.	21PY6105T	Pharmaceutical Inorganic Chemistry	PCC	2-1-0-0	I Year (2021-22)

*G. Chellurad*  
15/3/22  
PRINCIPAL  
K.L. College of Pharmacy  
(Deemed to be University)  
Green Fields, Vaddeswaram-522502  
Guntur District, Andhra Pradesh.

10.	21PY6105P	Pharmaceutical Inorganic Chemistry	PCC	0-0-3-0	I Year (2021-22)
11.	21PY610B6T	Remedial Biology	BSC	3-1-0-0	I Year (2021-22)
12.	21PY610M6T	Remedial Mathematics	BSC	3-1-0-0	I Year (2021-22)
13.	21PY610B6P	Remedial Biology	BSC	0-0-3-0	I Year (2021-22)
14.	21PY6201T	Pathophysiology	PCC	3-1-0-0	II Year (2022-23)
15.	21PY6202T	Pharmaceutical Microbiology	PCC	3-1-0-0	II Year (2022-23)
16.	21PY6202P	Pharmaceutical Microbiology	PCC	0-0-3-0	II Year (2022-23)
17.	21PY6203T	Pharmacognosy & Phytopharmaceuticals	PCC	3-1-0-0	II Year (2022-23)
18.	21PY6203P	Pharmacognosy & Phytopharmaceuticals	PCC	0-0-3-0	II Year (2022-23)
19.	21PY6204T	Pharmacology-I	PCC	3-1-0-0	II Year (2022-23)
20.	21PY6205T	Community Pharmacy	PCC	2-1-0-0	II Year (2022-23)
21.	21PY6206T	Pharmacotherapeutics-I	PCC	3-1-0-0	II Year (2022-23)
22.	21PY6206P	Pharmacotherapeutics-I	PCC	0-0-3-0	II Year (2022-23)
23.	21PY6301T	Pharmacology-II	PCC	3-1-0-0	III Year (2023-24)
24.	21PY6301P	Pharmacology-II	PCC	0-0-3-0	III Year (2023-24)
25.	21PY6302T	Pharmaceutical Analysis	PCC	3-1-0-0	III Year (2023-24)

*G. E. Lakshmaiah*  
15/3/22

PRINCIPAL  
KL College of Pharmacy  
(Deemed to be University)  
Koneru Lakshmaiah Educational Foundation  
Green Fields, Vaddeswaram-522502  
Guntur District, Andhra Pradesh.

26.	21PY6302P	Pharmaceutical Analysis	PCC	0-0-3-0	III Year (2023-24)
27.	21PY6303T	Pharmacotherapeutics- II	PCC	3-1-0-0	III Year (2023-24)
28.	21PY6303P	Pharmacotherapeutics- II	PCC	0-0-3-0	III Year (2023-24)
29.	21PY6304T	Pharmaceutical Jurisprudence	PCC	2-0-0-0	III Year (2023-24)
30.	21PY6305T	Medicinal Chemistry	PCC	3-1-0-0	III Year (2023-24)
31.	21PY6305P	Medicinal Chemistry	PCC	0-0-3-0	III Year (2023-24)
32.	21PY6306T	Pharmaceutical Formulations	PCC	2-1-0-0	III Year (2023-24)
33.	21PY6306P	Pharmaceutical Formulations	PCC	0-0-3-0	III Year (2023-24)
34.	21PY6401T	Pharmacotherapeutics- III	PCC	3-1-0-0	IV Year (2024-25)
35.	21PY6401P	Pharmacotherapeutics- III	PCC	0-0-3-0	IV Year (2024-25)
36.	21PY6402T	Hospital Pharmacy	PCC	2-1-0-0	IV Year (2024-25)
37.	21PY6402P	Hospital Pharmacy	PCC	0-0-3-0	IV Year (2024-25)
38.	21PY6403T	Clinical Pharmacy	PCC	3-1-0-0	IV Year (2024-25)
39.	21PY6403P	Clinical Pharmacy	PCC	0-0-3-0	IV Year (2024-25)
40.	21PY6404T	Biostatistics & Research Methodology	PCC	2-1-0-0	IV Year (2024-25)
41.	21PY6405T	Biopharmaceutics & Pharmacokinetics	PCC	3-1-0-0	IV Year (2024-25)

*G. Chellakani*  
15/3/22

PRINCIPAL  
KL College of Pharmacy  
(Deemed to be University)  
Green Fields, Vaddeswaram-522502  
Guntur District, Andhra Pradesh.

42.	21PY6405P	Biopharmaceutics & Pharmacokinetics	PCC	0-0-3-0	IV Year (2024-25)
43.	21PY6406T	Clinical Toxicology	PCC	2-1-0-0	IV Year (2024-25)
44.	21PY6501T	Clinical Research	PCC	3-1-0-0	V Year (2025-26)
45.	21PY6502T	Pharmacoepidemiology and Pharmacoeconomics	PCC	3-1-0-0	V Year (2025-26)
46.	21PY6503T	Clinical Pharmacokinetics & Pharmacotherapeutic Drug Monitoring	PCC	2-1-0-0	V Year (2025-26)
47.	21PY650N4	Clerkship	PCC	0-1-0-0	V Year (2025-26)
48.	21PY650E5	Project work (Six Months)	PRI	0-0-20-0	V Year (2025-26)
49.	21PY660N1	Internship	PCC	0-0-40-0	VI Year (2026-27)

#### AGENDA ITEM-5

❖ To consider and approve the Program development documents of B. Pharmacy, M. Pharmacy and Pharm. D for 2021 admitted batch.	Approved and Recommended to Academic Council
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**Discussion:** Program development document of B. Pharmacy, M. Pharmacy and Pharm. D for AY 2021-22 were circulated among members and the members verified the document and ensured that the course structure developed is not deviating from the structure suggested by PCI.

**Resolution:** All the members reviewed all the PDD Y21 documents including the thrust areas and approved it.

*G. Chakravarthy*  
15/12/2021  
PRINCIPAL  
KJ College of Pharmacy  
(Deemed to be University)  
Koneru Lakshmaiah Educational Foundation  
Green Fields, Vaddeswaram-522502  
Guntur District, Andhra Pradesh.

#### AGENDA ITEM-6

❖ To consider the feedback received from various stakeholders	Approved and Recommended to Academic Council
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**Resolution:** Following is the feedback given by stakeholders on curriculum

- ❖ Mr. Karnati SVSS Sai Durga Prasad, bearing ID No: 190181034 gave the feedback to include National cadets' cops or NSS as an open elective. Upon discussion it was recommended to initiate the process for inclusion of National cadets' cops/NSS in the second, third and sixth semesters of the curriculum.
- ❖ Linga Banoth, Scientist, CSIR advised to make collaborations with industries and other research facilities Recommended to collaborate with the Hetro labs, Hyderabad for industrial visits and National Institute of Pharmaceutical Education and Research (NIPER) Hyderabad for the research activities

#### AGENDA ITEM-7

❖ To initiate the process for inclusion of National Cadet Cops/NSS in the second, third and sixth semesters of the curriculum with the LTP structure of 2-0-2-0 with 3 credits for the academic year 2021-22.	Approved and Recommended to Academic Council
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**Discussion:** As per the feedback received from students, National Cadet Cops/NSS can be included in the curriculum with LTP structure of 2-0-2-0 with 3 credits for the academic year 2021-22 based on UGC regulations.

**Resolution:** It was resolved to initiate the process for inclusion of National Cadet Cops/NSS in the second, third and sixth semesters of the curriculum for the academic year 2021-22

*G. Chellababu*  
15/12/22  
PRINCIPAL  
Koneru Lakshmaiah Education Foundation  
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Guntur District, Andhra Pradesh.

### AGENDA ITEM-8

❖ Development of project related collaborations with industries and outside organizations	Approved and Recommended to Academic Council
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**Discussion:** Developing collaborations with industries and other research organizations will enhance the research opportunities and strengthen the abroad internships and exchange programmes.

**Resolution:** All the members agreed to develop & strengthen the collaborations with industries and other research organizations.

### AGENDA ITEM-9

❖ Conduction of clinical workshops.	Approved and Recommended to Academic Council
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**Discussion:** Conducting workshops on clinical fields will enhance the skill set of students more towards practicing the pharmacy more effectively.

**Resolution:** All the members unanimously agreed to conduct workshops in the clinical oriented area and strengthening the clinical skills of our students

### AGENDA ITEM-10

❖ To apply for the NBA accreditation.	Approved and Recommended to Academic Council
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**Discussion:** By applying for the NBA accreditation, department standards will be enhanced.

**Resolution:** All the members agreed to initiate the NBA accreditation process for the B. Pharmacy program.

*G. Chaitanya*  
15/3/22  
PRINCIPAL  
K.L. College of Pharmacy  
(Deemed to be University)  
Yonenu Lakshmaiah Educational Foundation  
Green Fields, Vaddeswaram-522502  
Guntur District, Andhra Pradesh.



## Annexure II

**Minutes of the 11<sup>th</sup> DAC meeting, KL College of pharmacy held on 08-03-2022 at Room 309 B, from 10:30 Am -12:30 Pm**

### AGENDA ITEM-1

<ul style="list-style-type: none"><li>❖ <b>To consider and approve Structure and Syllabus for the A.Y. 2022-23 as per the PCI norms.</b></li></ul>	
<ul style="list-style-type: none"><li>❖ Resolution: It was resolved to include the Y22 structure and syllabus as per the PCI norms</li><li>❖ All the members agreed to incorporate the Y22 structure and syllabus as per the PCI norms for the A.Y. 2022-23.</li></ul>	Approved

### AGENDA ITEM-2

<ul style="list-style-type: none"><li>❖ To consider the feedback received from various stakeholders</li></ul>	
<p><b>Following is the feedback given by stakeholders on curriculum</b></p> <ul style="list-style-type: none"><li>❖ Mr. Karnati SVSS Sai Durga Prasad, bearing ID No: 190181034 gave feedback to include Student activity center (SAC) activities in the curriculum upon discussion it was recommended to add activity like 'Autism' and included the same in the current curriculum as a part of student activity.</li><li>❖ Mr. Collins Kojo Darkwah, bearing ID No: 2101570005 gave the feedback to include MOOC Courses. Upon discussion, it was recommended for students to enroll in the online MOOC platforms like NPTEL-Swayam etc. for self-learning.</li><li>❖ Dr. A. Anaka Rao Emp Id: 5922 gave the feedback to provide infrastructure requirements for the new programs. Upon discussion it was recommended to procure the advanced instruments for newly proposed programs.</li><li>❖ L. Ramya Sri of Y17 batch working as a Hospital Pharmacist at Dr. Trinath Bharath Nursing Home suggested to include value added courses. Upon discussion it was recommended to add the value-added</li></ul>	Approved

*G. Chandra*  
PRINCIPAL  
KL College of Pharmacy  
Women's Lakshmaiah Educational Foundation  
(Deemed to be University)  
Teen Feilds, Vaddeswaram-522502  
Suntur District, Andhra Pradesh.

<p>courses in the curriculum like (SAS, Pharmacovigilance etc.). Further appropriate courses are identified.</p> <ul style="list-style-type: none"> <li>❖ Dr. M Narender, Assistant Professor, KLEF gave the feedback to include a few MOOC courses in the curriculum. Upon discussion, it was recommended for students to enroll in the online MOOCs platforms like NPTEL-Swayam etc. for self-learning.</li> <li>❖ Suri Babu J, Sr. GM, Pulse Pharmaceuticals Pvt Ltd., suggested to give more importance to Skill development and entrepreneurship / employability courses are required. Upon discussion, it was observed that the skill and employability courses are already implemented in the curriculum. Further, entrepreneurship courses identification is in the process.</li> </ul>	
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**AGENDA ITEM-3**

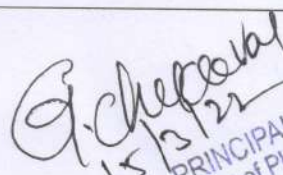
<ul style="list-style-type: none"> <li>❖ To Include the Student Activity Centers (SAC) activities.</li> <li>❖ Resolution: It was decided to include the SAC activities along with the curriculum. The main objective of the above is to impart the skills through the activity.</li> </ul>	Approved
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**AGENDA ITEM-4**

<ul style="list-style-type: none"> <li>❖ Review of the Y21 Structures and syllabus.</li> <li>❖ Resolution: All the members reviewed the Y21 structure and unanimously agreed the structure with the syllabus without deviating from the PCI norms.</li> </ul>	Approved
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**AGENDA ITEM-5**

<ul style="list-style-type: none"> <li>❖ To consider the Program development documents for Y22.</li> <li>❖ Resolution: All the members reviewed all the PDD Y22 documents including the thrust areas and approved it.</li> </ul>	Approved
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 Koneru Lakshmaiah Educational Foundation  
 (Deemed to be University)  
 Green Fields, Vaddeswaram-522502  
 Guntur District, Andhra Pradesh.

#### AGENDA ITEM-6

<ul style="list-style-type: none"><li>❖ To focus on skill development courses.</li><li>❖ Resolution: Based upon the feedback received from the stake holders, it was suggested that to increase the employment opportunities, skill courses have to be included. All the members agreed to continue the following skilled courses for the A.Y. 2022-223. Operation of Analytical Instruments (22PY4133S), Production process for API/Bulk drug/Intermediates (22PY3123S) with the LT-P-S structure of 0-0-0-4 with 1 credit.</li></ul>	Approved
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#### AGENDA ITEM-7

<ul style="list-style-type: none"><li>❖ To focus on Entrepreneurship courses</li><li>❖ Resolution: All the members agreed to give importance to the PCI suggested entrepreneur courses in the form of elective courses from the curriculum.</li></ul>	Approved
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#### AGENDA ITEM-8

<ul style="list-style-type: none"><li>❖ To focus on employability courses</li><li>❖ Resolution: All the members reviewed and identified the employability courses from the curriculum (without deviating the PCI norms).</li></ul>	Approved
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#### AGENDA ITEM-9

<ul style="list-style-type: none"><li>❖ To focus on Value added courses</li><li>❖ Resolution: Value added courses like US FDA, Basic nutrition, Quality in Pharmaceutical Industry, clinical data management, Clinical pharmacy, pharmacovigilance, Statistical Analytical systems and Regulatory affairs were</li></ul>	Approved
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*G. Cheluvu*  
15/3/22  
PRINCIPAL  
Koneru Lakshmaiah Educational Foundation  
(Deemed to be University)  
Green Fields, Vaddeswaram-522502  
Guntur District, Andhra Pradesh.

identified and all the members agreed to include the above in the Y22 structure. (Without deviating the PCI norms)	
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**AGENDA ITEM-10**

<ul style="list-style-type: none"> <li>❖ To include the evaluation plans</li> <li>❖ Resolution: All the members reviewed the evaluation plans and unanimously agreed the same evaluation plan for all the courses in the curriculum.</li> </ul>	Approved
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**AGENDA ITEM-11**

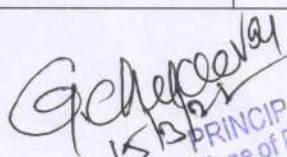
<ul style="list-style-type: none"> <li>❖ To include MOOCs Courses in the A.Y. 2022-23</li> <li>❖ Resolution: After reviewing the courses available in different MOOC websites, members agreed to choose the NPTEL-Swayam courses as a platform form for the MOOCs.</li> </ul>	Approved
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**AGENDA ITEM-12**

<ul style="list-style-type: none"> <li>❖ To give "equivalency" for the students migrated from the other universities.</li> <li>❖ Resolution: After a detailed discussion with the members, it was decided that equivalency can be given to the students migrated from the other universities as per the PCI norms and regulations.</li> </ul>	Approved
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**AGENDA ITEM-13**

<ul style="list-style-type: none"> <li>❖ To procure infrastructure requirements for the new programs.</li> <li>❖ Resolution: All the members recommended for the purchase of new software for the Pharm. D program and M. Pharmacy courses for utilizing and monitoring the usage of the safety of medicines.</li> </ul>	Approved
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 K.L. College of Pharmacy  
 Women's Lakshmaiah Educational Foundation  
 (Deemed to be University)  
 Ven Feilds, Vaddeswaram-522502  
 West Godavari District, Andhra Pradesh.

#### AGENDA ITEM-14

<ul style="list-style-type: none"><li>❖ To include work in lieu in the Curriculum.</li> <li>❖ Resolution: Students undergoing industrial training for a period of three months (Minimum of 80hrs) will be considered as equivalent to the industrial pharmacy with L-T-P-S as 0-0-4-0.  Students undergoing practical training in the hospital for a period of minimum 90hrs will be considered as equivalent to the pharmacy practice with L-T-P-S as 3-1-0-0.</li></ul>	Approved
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#### AGENDA ITEM-15

<ul style="list-style-type: none"><li>❖ To propose the Pre-Ph. D courses revision.</li> <li>❖ Resolution: As per the feedback received from the stakeholders, all the members agreed to change the syllabus for the Pre-PhD courses and agreed for the minor changes.</li></ul>	Approved
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#### AGENDA ITEM-16

<ul style="list-style-type: none"><li>❖ To apply for the NBA accreditation</li> <li>❖ Resolution: All the members agreed to initiate the NBA accreditation process for the B. Pharmacy program.</li></ul>	Approved
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*G. Chellappa*  
15/3/22  
PRINCIPAL  
KL College of Pharmacy  
Koneru Lakshmaiah Educational Foundation  
(Deemed to be University)  
in Feilds, Vaddeswaram-522502  
district, Andhra Pradesh.

**Annexure III:**

**B. Pharm Y22 Program Structure Focused on Focused on Employability/Entrepreneurship/Skill Development**

SNO	COURSE CODE	COURSE NAME	Course Category	L	T	P	S	CR	Pre-requisite	New Course/Revised Course/Retained Course	Changes Proposed by	Focused on Skill Development
1	22UC1101	Integrated Professional English	HSS	0	0	4	0	2	NIL	Retained	-	Skilling
2	22UC1202	English Proficiency	HSS	0	0	4	0	2	NIL	Retained	-	Skilling
3	22UC1203	Design Thinking and Innovation	HSS	1	0	0	4	2	NIL	Retained	-	Skilling
4	22UC0010	Universal Human Values and Professional Ethics	HSS	2	0	0	0	2	Nil	Retained	-	Employability
5	22PY1101T	Human Anatomy and Physiology I (Theory)	PC	3	1	0	0	4	Nil	Retained	-	Employability
6	22PY1101P	Human Anatomy and Physiology I (Practical)	PC	0	0	4	0	2	NIL	Retained	-	Skilling
7	22PY1102T	Pharmaceutical Analysis I (Theory)	PC	3	1	0	0	4	Nil	Retained	-	Employability
8	22PY1102P	Pharmaceutical Analysis I (Practical)	PC	0	0	4	0	2	NIL	Retained	-	Skilling
9	22PY1103T	General Pharmaceutics (Theory)	PC	3	1	0	0	4	Nil	Retained	-	Employability
10	22PY1103P	General Pharmaceutics (Practical)	PC	0	0	4	0	2	NIL	Retained	-	Skilling
11	22PY1104T	Pharmaceutical Inorganic Chemistry (Theory)	PC	3	1	0	0	4	Nil	Retained	-	Employability
12	22PY1104P	Pharmaceutical Inorganic Chemistry (Practical)	PC	0	0	4	0	2	NIL	Retained	-	Skilling
13	22PY1105T	Communication skills* (Theory)	BS	2	0	0	0	2	Nil	Retained	-	Employability
14	22PY1105P	Communication skills* (Practical)	BS	0	0	2	0	1	NIL	Retained	-	Skilling

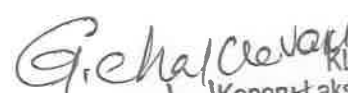
PRINCIPAL  
 G. Cheluvu  
 15/3/22  
 College of Pharmacy  
 Jeneru Lakshmaiah Educational Foundation  
 (Deemed to be University)  
 Green Feilds, Vaddeswaram-522502  
 Guntur District, Andhra Pradesh.

15	22PY1106RBT /RMT	Remedial Biology/Remedial Mathematics* (Theory)	BS	2	0	0	0	2	Nil	Retained	-	Employability
16	22PY1106RBP	Remedial Biology* (Practical)	BS	0	0	2	0	1	NIL	Retained	-	Skilling
17	22PY1207T	Human Anatomy and Physiology II (Theory)	PC	3	1	0	0	4	Nil	Retained	-	Employability
18	22PY1207P	Human Anatomy and Physiology II (Practical)	PC	0	0	4	0	2	NIL	Retained	-	Skilling
19	22PY1208T	Pharmaceutical Organic Chemistry I (Theory)	PC	3	1	0	0	4	Nil	Retained	-	Employability
20	22PY1208P	Pharmaceutical Organic Chemistry I (Practical)	PC	0	0	4	0	2	NIL	Retained	-	Skilling
21	22PY1209T	Biochemistry (Theory)	PC	3	1	0	0	4	Nil	Retained	-	Employability
22	22PY1209P	Biochemistry (Practical)	PC	0	0	4	0	2	NIL	Retained	-	Skilling
23	22PY1210T	Pathophysiology (Theory)	PC	3	1	0	0	4	Nil	Retained	-	Employability
24	22PY1211T	Computer Applications in Pharmacy* (Theory)	BS	3	0	0	0	3	Nil	Retained	-	Employability
25	22PY1211P	Computer Applications in Pharmacy* (Practical)	BS	0	0	2	0	1	NIL	Retained	-	Skilling
26	22PY1212T	Environmental sciences * (Theory)	BS	3	0	0	0	3	Nil	Retained	-	Employability
27	22PY2113T	Pharmaceutical Organic Chemistry II (Theory)	PC	3	1	0	0	4	Nil	Retained	-	Employability
28	22PY2113P	Pharmaceutical Organic Chemistry II (Practical)	PC	0	0	4	0	2	NIL	Retained	-	Skilling
29	22PY2114T	Physical Pharmaceutics I (Theory)	PC	3	1	0	0	4	Nil	Retained	-	Employability
30	22PY2114P	Physical Pharmaceutics I (Practical)	PC	0	0	4	0	2	NIL	Retained	-	Skilling

G. Chelluram  
15/3/22

PRINCIPAL  
KL College of Pharmacy  
Koneru Lakshmaiah Educational Foundation  
(Deemed to be University)  
Green Feilds, Vaddeswaram-522502  
Guntur District, Andhra Pradesh.

31	22PY2115T	Pharmaceutical Microbiology (Theory)	PC	3	1	0	0	4	Nil	Retained	-	Employability
32	22PY2115P	Pharmaceutical Microbiology (Practical)	PC	0	0	4	0	2	NIL	Retained	-	Skilling
33	22PY2116T	Pharmaceutical Engineering (Theory)	PC	3	1	0	0	4	Nil	Retained	-	Employability
34	22PY2116P	Pharmaceutical Engineering (Practical)	PC	0	0	4	0	2	NIL	Retained	-	Skilling
35	22PY2218T	Medicinal Chemistry I (Theory)	PC	3	1	0	0	4	Nil	Retained	-	Employability
36	22PY2218P	Medicinal Chemistry I (Practical)	PC	0	0	4	0	2	NIL	Retained	-	Skilling
37	22PY2219T	Physical Pharmaceutics II (Theory)	PC	3	1	0	0	4	Nil	Retained	-	Employability
38	22PY2219P	Physical Pharmaceutics II (Practical)	PC	0	0	4	0	2	NIL	Retained	-	Skilling
39	22PY2220T	Pharmacology I (Theory)	PC	3	1	0	0	4	Nil	Retained	-	Employability
40	22PY2220P	Pharmacology I (Practical)	PC	0	0	4	0	2	NIL	Retained	-	Skilling
41	22PY2221T	Pharmacognosy and Phytochemistry I (Theory)	PC	3	1	0	0	4	Nil	Retained	-	Employability
42	22PY2221P	Pharmacognosy and Phytochemistry I (Practical)	PC	0	0	4	0	2	NIL	Retained	-	Skilling
43	22PY3122T	Medicinal Chemistry II (Theory)	PC	3	1	0	0	4	Nil	Retained	-	Employability
44	22PY3123T	Industrial Pharmacy I (Theory)	PC	3	1	0	0	4	Nil	Retained	-	Employability
45	22PY3123P	Industrial Pharmacy I (Practical)	PC	0	0	4	0	2	NIL	Retained	-	Skilling
46	22PY3124T	Pharmacology II (Theory)	PC	3	1	0	0	4	Nil	Retained	-	Employability
47	22PY3124P	Pharmacology II (Practical)	PC	0	0	4	0	2	NIL	Retained	-	Skilling

  
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 KL College of Pharmacy  
 Lakshmaiah Educational Foundation  
 (Deemed to be University)  
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 Guntur District, Andhra Pradesh.



48	22PY3125T	Pharmacognosy and Phytochemistry II (Theory)	PC	3	1	0	0	4	Nil	Retained	-	Employability
49	22PY3125P	Pharmacognosy and Phytochemistry II (Practical)	PC	0	0	4	0	2	NIL	Retained	-	Skilling
50	22PY3126T	Pharmaceutical Jurisprudence (Theory)	PC	3	1	0	0	4	Nil	Retained	-	Employability
51	22PY3123S	Production process for API/Bulk drug/Intermediates	skill	0	0	0	4	1	NIL	Retained	-	Skilling
52	22PY3227T	Medicinal Chemistry III (Theory)	PC	3	1	0	0	4	Nil	Retained	-	Employability
53	22PY3227P	Medicinal chemistry III (Practical)	PC	0	0	4	0	2	NIL	Retained	-	Skilling
54	22PY3228T	Pharmacology III (Theory)	PC	3	1	0	0	4	Nil	Retained	-	Employability
55	22PY3228P	Pharmacology III (Practical)	PC	0	0	4	0	2	NIL	Retained	-	Skilling
56	22PY3229T	Herbal Drug Technology (Theory)	PC	3	1	0	0	4	Nil	Retained	-	Employability
57	22PY3229P	Herbal Drug Technology (Practical)	PC	0	0	4	0	2	NIL	Retained	-	Skilling
58	22PY3230T	Biopharmaceutics and Pharmacokinetics (Theory)	PC	3	1	0	0	4	Nil	Retained	-	Employability
59	22PY3231T	Pharmaceutical Biotechnology (Theory)	PC	3	1	0	0	4	Nil	Retained	-	Employability
60	22PY4133P	Instrumental Methods of Analysis (Practical)	PC	0	0	4	0	2	NIL	Retained	-	Skilling
61	22PY3232T	Quality Assurance (Theory)	PC	3	1	0	0	4	Nil	Retained	-	Employability
62	22PY4133T	Instrumental Methods of Analysis (Theory)	PC	3	1	0	0	4	Nil	Retained	-	Employability
63	22PY4134T	Industrial Pharmacy II (Theory)	PC	3	1	0	0	4	Nil	Retained	-	Employability

PRINCIPAL  
 K.L. College of Pharmacy  
 Koneru Lakshmaiah Educational Foundation  
 (Deemed to be University)  
 Green Fields, Vaddeswaram-522502  
 Guntur District, Andhra Pradesh.

*G. Cheluvu*  
 15/3/22

64	22PY4135T	Pharmacy Practice (Theory)	PC	3	1	0	0	4	Nil	Retained	-	Employability
65	22PY4136T	Novel Drug Delivery System (Theory)	PC	3	1	0	0	4	Nil	Retained	-	Employability
66	22PY4137PS	Practice School*	PC	0	0	12	0	6	NIL	Retained	-	Skilling
67	22PY4133S	Operation of Analytical Instruments	Skill	0	0	0	4	1	NIL	Retained	-	Skilling
68	22PY4238T	Biostatistics and Research Methodology (Theory)	PC	3	1	0	0	4	Nil	Retained	-	Employability
69	22PY4239T	Social and Preventive Pharmacy (Theory)	PC	3	1	0	0	4	Nil	Retained	-	Employability
70	22PY4240ET	Pharma Marketing Management (Theory)	PE	3	1	0	0	4	NIL	Retained	-	Entrepreneurship
71	22PY4241ET	Pharmaceutical Regulatory Science (Theory)	PE	3	1	0	0	4	NIL	Retained	-	Entrepreneurship
72	22PY4242ET	Pharmacovigilance (Theory)	PE	3	1	0	0	4	NIL	Retained	-	Entrepreneurship
73	22PY4243ET	Quality Control and Standardization of Herbals (Theory)	PE	3	1	0	0	4	NIL	Retained	-	Entrepreneurship
74	22PY4244ET	Computer Aided Drug Design (Theory)	PE	3	1	0	0	4	NIL	Retained	-	Entrepreneurship
75	22PY4245ET	Cell and Molecular Biology (Theory)	PE	3	1	0	0	4	NIL	Retained	-	Entrepreneurship
76	22PY4246ET	Cosmetic Science (Theory)	PE	3	1	0	0	4	NIL	Retained	-	Entrepreneurship
77	22PY4247ET	Experimental Pharmacology (Theory)	PE	3	1	0	0	4	NIL	Retained	-	Entrepreneurship
77	22PY4248ET	Advanced Instrumentation Techniques (Theory)	PE	3	1	0	0	4	NIL	Retained	-	Entrepreneurship
78	22PY4249ET	Dietary Supplements and Nutraceuticals (Theory)	PE	3	1	0	0	4	NIL	Retained	-	Entrepreneurship

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 KL College of Pharmacy  
 Koneeru Lakshmaiah Educational Foundation  
 (Deemed to be University)  
 Green Feilds, Vaddeswaram-522502  
 Guntur District, Andhra Pradesh.

*G. Chandra Reddy*  
 15/3/22

79	22PY4250PW	Project Work	PW	0	0	12	0	6	NIL	Retained	-	Skilling
80	22GN40D1	National Cadet Corps(NCC)-1	OE	2	0	2	0	3	NIL	Retained	-	Skilling
81	22GN40D2	National Cadet Corps (NCC)-2	OE	2	0	2	0	3	NIL	Retained	-	Skilling
82	22GN40D3	National Cadet Corps (NCC)-3	OE	2	0	2	0	3	NIL	Retained	-	Skilling
83	22GN40D4	National Service Scheme-1	OE	2	0	2	0	3	NIL	Retained	-	Skilling
84	22GN40D5	National Service Scheme-2	OE	2	0	2	0	3	NIL	Retained	-	Skilling
85	22GN40D6	National Service Scheme-3	OE	2	0	2	0	3	NIL	Retained	-	Skilling

**Percentage of Syllabus Revision= 0%**

**Percentage of Courses focusing on Employability= 45.88%**

**Percentage of Courses focusing on Entrepreneurship= 11.76%**

**Percentage of Courses focusing on Skill Development = 42.36%**

*G. Chalapati*  
 15/8/22  
 PRINCIPAL  
 KL College of Pharmacy  
 Koneru Lakshmaiah Educational Foundation  
 (Deemed to be University)  
 Green Feilds, Vaddeswaram-522502  
 Guntur District, Andhra Pradesh.

**M. Pharmacy Structure focused on Focused on Employability/Entrepreneurship/Skill Development**

SNO	COURSE CODE	COURSE NAME	Category	L	T	P	S	CR	Pre-Requisite	New Course/ Revised Course/ Retained Course	Changes Proposed by	Focused on Employability/ Entrepreneurship/ Skill Development
1	22PY5101	Modern Pharmaceutical Analytical Techniques	PCC	4	0	0	0	4	Nil	Retained	-	Employability / Entrepreneurship
2	22PY5102	Drug Delivery System	PCC	4	0	0	0	4	Nil	Retained	Nil	Employability
3	22PY5103	Modern Pharmaceutics	PCC	4	0	0	0	4	Nil	Retained	Nil	Employability
4	22PY5104	Regulatory Affair	PCC	4	0	0	0	4	Nil	Retained	Nil	Employability / Entrepreneurship
5	22PY5105	Pharmaceutics Practical I	PCC	0	0	12	0	6	Nil	Retained	Nil	Skilling
6	22PY5106	Seminar/ Assignment	skill	0	0	8	0	4	Nil	Retained	Nil	Skilling
7	22PY5107	Molecular Pharmaceutics (Nano Tech and Targeted DDS)	PCC	4	0	0	0	4	Nil	Retained	Nil	Employability
8	22PY5108	Advanced Biopharmaceutics & Pharmacokinetics	PCC	4	0	0	0	4	Nil	Retained	Nil	Employability
9	22PY5109	Computer Aided Drug Delivery System	PCC	4	0	0	0	4	Nil	Retained	Nil	Employability / Entrepreneurship
10	22PY5110	Cosmetic and Cosmeceuticals	PCC	4	0	0	0	4	Nil	Retained	Nil	Employability / Entrepreneurship
11	22PY5111	Pharmaceutics Practical II	PCC	0	0	12	0	6	Nil	Retained	Nil	Skilling
12	22PY5112	Seminar/ Assignment	skill	0	0	8	0	4	Nil	Retained	Nil	Skilling
13	22PY5113	Research Methodology and Biostatistics*	PCC	4	0	0	0	4	Nil	Retained	Nil	Employability
14	22PY5114	Journal club	skill	0	0	2	0	1	Nil	Retained	Nil	Skilling
15	22PY5115	Discussion / Presentation (Proposal Presentation)	skill	0	0	4	0	2	Nil	Retained	Nil	Skilling

*G. Cheluvu*  
15/3/22

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Koneru Lakshmaiah Educational Foundation  
(Deemed to be University)  
Green Fields, Vaddeswaram-522502  
Guntur District, Andhra Pradesh.

16	22PY5116	Research Work	skill	0	0	28	0	14	Nil	Retained	Nil	Skilling
17	22PY5117	Journal Club	skill	0	0	2	0	1	Nil	Retained	Nil	Skilling
18	22PY5118	Research Work	skill	0	0	33	0	16	Nil	Retained	Nil	Skilling
19	22PY5119	Discussion/Final Presentation	skill	0	0	6	0	3	Nil	Retained	Nil	Skilling
20	22PY5120	Co-curricular Activities (Attending Conference, Scientific Presentations and Other Scholarly Activities)	skill	0	0	8	0	4	Nil	Retained	Nil	Skilling

Percentage of Syllabus Revision= 0%

Percentage of Courses focusing on Employability= 45%

Percentage of Courses focusing on Entrepreneurship= 4.19%

Percentage of Courses focusing on Skill Development = 57.89%

*G. Chellaband*  
15/3/22

**PRINCIPAL**

KL College of Pharmacy  
Koneru Lakshmaiah Educational Foundation  
( Deemed to be University )  
Green Feilds, Vaddeswaram-522502  
Guntur District, Andhra Pradesh.

**Pharm. D Y22 Structure Focused on Employability/Entrepreneurship/Skill Development**

SNO	COURSE CODE	COURSE NAME	Course Category	L	T	P	S	Pre-Requisite	New Course/Revised Course/Retained Course	Changes Proposed by	Focused on Employability/ Entrepreneurship/ Skill Development
1	22PY6101T	Human Anatomy and Physiology	PC	3	1	0	0	Nil	Retained	-	Employability
2	22PY6101T	Human Anatomy and Physiology	PC	0	0	3	0	NIL	Retained	-	Skilling
3	22PY6102T	Pharmaceutics	PC	2	1	0	0	Nil	Retained	-	Employability
4	22PY6102T	Pharmaceutics	PC	0	0	3	0	NIL	Retained	-	Skilling
5	22PY6103T	Medicinal Biochemistry	PC	3	1	0	0	Nil	Retained	-	Employability
6	22PY6103T	Medicinal Biochemistry	PC	0	0	3	0	NIL	Retained	-	Skilling
7	22PY6104T	Pharmaceutical Organic Chemistry	PC	3	1	0	0	Nil	Retained	-	Employability
8	22PY6104T	Pharmaceutical Organic Chemistry	PC	0	0	3	0	NIL	Retained	-	Skilling
9	22PY6105T	Pharmaceutical Inorganic Chemistry	PC	2	1	0	0	Nil	Retained	-	Employability
10	22PY6105T	Pharmaceutical Inorganic Chemistry	PC	0	0	3	0	NIL	Retained	-	Skilling
11	22PY610B6T/ 21PY610M6T	Remedial Biology/Remedial Mathematics	BS	3	1	0	0	Nil	Retained	-	Employability
12	22PY610B6P	Remedial Biology	BS	0	0	3	0	Nil	Retained	-	Employability
13	22PY6201T	Pathophysiology	PC	3	1	0	0	Nil	Retained	-	Employability
14	22PY6202T	Pharmaceutical Microbiology	PC	3	1	0	0	Nil	Retained	-	Employability

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15	22PY6203T	Pharmacognosy& Phytopharmaceuticals	PC	3	1	0	0	Nil	Retained	-	Employability
16	22PY6203P	Pharmacognosy& Phytopharmaceuticals	PC	0	0	3	0	NIL	Retained	-	Skilling
17	22PY6204T	Pharmacology-I	PC	3	1	0	0	Nil	Retained	-	Employability
18	22PY6205T	Community Pharmacy	PC	2	1	0	0	Nil	Retained	-	Employability/Entrepreneurship
19	22PY6206T	Pharmacotherapeutics-I	PC	3	1	0	0	Nil	Retained	-	Employability
20	22PY6206P	Pharmacotherapeutics-I	PC	0	0	3	0	NIL	Retained	-	Skilling
21	22PY6301T	Pharmacology-II	PC	3	1	0	0	Nil	Retained	-	Employability
22	22PY6301P	Pharmacology-II	PC	0	0	3	0	NIL	Retained	-	Skilling
23	22PY6302T	Pharmaceutical Analysis	PC	3	1	0	0	Nil	Retained	-	Employability
24	22PY6302P	Pharmaceutical Analysis	PC	0	0	3	0	NIL	Retained	-	Skilling
25	22PY6303T	Pharmacotherapeutics-II	PC	3	1	0	0	Nil	Retained	-	Employability
26	22PY6303P	Pharmacotherapeutics-II	PC	0	0	3	0	NIL	Retained	-	Skilling
27	22PY6304T	Pharmaceutical Jurisprudence	PC	2	0	0	0	Nil	Retained	-	Employability
28	22PY6305T	Medicinal Chemistry	PC	3	1	0	0	Nil	Retained	-	Employability
29	22PY6305P	Medicinal Chemistry	PC	0	0	3	0	NIL	Retained	-	Skilling
30	22PY6306T	Pharmaceutical Formulations	PC	2	1	0	0	Nil	Retained	-	Employability/Entrepreneurship
31	22PY6306P	Pharmaceutical Formulations	PC	0	0	3	0	NIL	Retained	-	Skilling/Entrepreneurship
32	22PY6401T	Pharmacotherapeutics-III	PC	3	1	0	0	Nil	Retained	-	Employability
33	22PY6401P	Pharmacotherapeutics-III	PC	0	0	3	0	NIL	Retained	-	Skilling

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34	22PY6402T	Hospital Pharmacy	PC	2	1	0	0	Nil	Retained	-	Employability/Entrepreneurship
35	22PY6402P	Hospital Pharmacy	PC	0	0	3	0	NIL	Retained	-	Skilling/Entrepreneurship
36	22PY6403T	Clinical Pharmacy	PC	3	1	0	0	Nil	Retained	-	Employability/Entrepreneurship
37	22PY6403P	Clinical Pharmacy	PC	0	0	3	0	NIL	Retained	-	Skilling
38	22PY6404T	Biostatistics & Research Methodology	PC	2	1	0	0	Nil	Retained	-	Employability
39	22PY6405T	Biopharmaceutics & Pharmacokinetics	PC	3	1	0	0	Nil	Retained	-	Employability
40	22PY6405P	Biopharmaceutics & Pharmacokinetics	PC	0	0	3	0	NIL	Retained	-	Skilling
41	22PY6406T	Clinical Toxicology	PC	2	1	0	0	Nil	Retained	-	Employability
42	22PY6501T	Clinical Research	PC	3	1	0	0	Nil	Retained	-	Employability/Entrepreneurship
43	22PY6502T	Pharmacoepidemiology and Pharmacoconomics	PC	3	1	0	0	Nil	Retained	-	Employability
44	22PY6503T	Clinical Pharmacokinetics & Pharmacotherapeutic Drug Monitoring	PC	2	1	0	0	Nil	Retained	-	Employability
45	22PY650N4	Clerkship	PC	0	1	0	0	NIL	Retained	-	Skilling/Entrepreneurship
46	22PY650E5	Project work (Six Months)	PC	0	0	2	0	NIL	Retained	-	Skilling
47	22PY660N1	Internship	PC	0	0	4	0	NIL	Retained	-	Skilling

Percentage of Syllabus Revision= 0%

Percentage of Courses focusing on Employability= 59.57%

Percentage of Courses focusing on Entrepreneurship= 12.7%

Percentage of Courses focusing on Skill Development = 40.42%

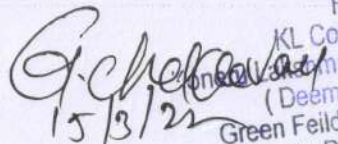
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**Annexure IV: Feedback comments from various stakeholders**

S. No	Recommendations	Action taken	Name of the Programme	Department
<b>1. Student</b>				
1	Mr. Karnati SVSS Sai Durga Prasad, bearing ID No: 190181034 gave the feedback to include Student activity center (SAC) activities in the curriculum	Recommended to add activities like 'Autism' is already identified and included in the current curriculum as part of student activity	B. Pharmacy	Pharmacy
2	Mr. Collins Kojo Darkwah, bearing ID No: 2101570005 gave the feedback to include MOOCs Courses	Recommended and instructed the students to enrol in the online MOOCs platforms like NPTEL-Swayam etc for self-learning	B. Pharmacy	Pharmacy
<b>2. Faculty</b>				
1	Dr. A. Anaka Rao Emp Id: 5922 gave the feedback to provide infrastructure requirements for the new programs	Recommended to procure the advanced instruments for newly proposed programs	B. Pharmacy, M. Pharmacy and Pharm. D	Pharmacy
<b>3. Alumni</b>				
1	L. Ramya Sri, of Y17 batch working as a Hospital Pharmacist at Dr. Trinath Bharath Nursing Home suggested to include value added courses.	Recommended to add the value-added courses in the curriculum like (SAS, Pharmacovigilance etc). Further appropriate courses are identified	B. Pharmacy	Pharmacy
<b>4. Academic Peer</b>				
1	Dr. M Narender, Assistant Professor, KLEF gave the feedback to include a few MOOC courses in the curriculum	Recommended for students to enroll in the online MOOCs platforms like NPTEL-Swayam etc. for self-learning.	B. Pharmacy	Pharmacy
<b>5. Industry Personnel</b>				
1	Suri Babu J, Sr. GM, Pulse Pharmaceuticals Pvt Ltd., suggested to give more importance to Skill development and entrepreneurship / employability courses are required	The skill and employability courses are already implemented in the curriculum. Further entrepreneurship courses identification is in the process.	B. Pharmacy	Pharmacy

  
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## **Annexure V: Proposed SAC Activity**

**Course:** Autism and Its Prevalence

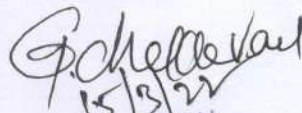
**Justification of Activity:** Awareness on physical, social and psychological health and hygiene and safe, effective economic usage of medicines will improve the quality of life. Most of the hospitalizations are due to lack of awareness of preliminary signs of the disease and improper usage of medications. Educating the public regarding health and hygiene will have impact on economic burden and positive health outcomes

Autism is a complicated condition that includes behavioral and communication problems. Children with Autism cannot communicate properly. Both verbal and nonverbal communication skills will not be executed by the child. Learning skills might develop unevenly.

### **Course outcomes:**

By the end of this course,


- Apply the principles of counselling on health issues
- Create awareness on Autism
- Develop skills of Communication
- Benefit to the society by educating (Primary school teachers) about early signs and symptoms of autism.

  
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## Annexure VI

### B. Pharmacy -Y 21 course structure

SEMESTER - 1									
Sl No	Course Code	Course Title	Type	L	T	P	S	Cr	CH
1	21PY1101T	Human Anatomy and Physiology I (Theory)	PC	3	1	0	0	4	4
2	21PY1101P	Human Anatomy and Physiology I (Practical)	PC	0	0	4	0	2	4
3	21PY1102T	Pharmaceutical Analysis I (Theory)	PC	3	1	0	0	4	4
4	21PY1102P	Pharmaceutical Analysis I (Practical)	PC	0	0	4	0	2	4
5	21PY1103T	Pharmaceutics (Theory)	PC	3	1	0	0	4	4
6	21PY1103P	Pharmaceutics (Practical)	PC	0	0	4	0	2	4
7	21PY1104T	Pharmaceutical Inorganic Chemistry (Theory)	PC	3	1	0	0	4	4
8	21PY1104P	Pharmaceutical Inorganic Chemistry (Practical)	PC	0	0	4	0	2	4
9	21PY1105T	Communication skills * (Theory)	HSS	2	0	0	0	2	2
10	21PY1105P	Communication skills* (Practical)	HSS	0	0	2	0	1	2
11	21PY1106RBT/ RMT	Remedial Biology/Remedial Mathematics* (Theory)	BS	2	0	0	0	2	2
12	21PY1106RBP	Remedial Biology* (Practical)	BS	0	0	2	0	1	2
<b>Total</b>				<b>16</b>	<b>4</b>	<b>18S/ 20#</b>	<b>4</b>	<b>31/ 32*</b>	<b>38<sup>S</sup> /40*</b>
S represents appearing for Remedial Mathematics, # appearing for Remedial biology									
*Non-University Examination (NUE) as per PCI									
SEMESTER - 2									
Sl No	Course Code	Course Title	Type	L	T	P	S	Cr	CH
1	21PY1207T	Human Anatomy and Physiology II (Theory)	PC	3	1	0	0	4	4
2	21PY1207P	Human Anatomy and Physiology II (Practical)	PC	0	0	4	0	2	4
3	21PY1208T	Pharmaceutical Organic Chemistry I (Theory)	PC	3	1	0	0	4	4
4	21PY1208P	Pharmaceutical Organic Chemistry I (Practical)	PC	0	0	4	0	2	4
5	21PY1209T	Biochemistry (Theory)	PC	3	1	0	0	4	4
6	21PY1209P	Biochemistry (Practical)	PC	0	0	4	0	2	4
7	21PY1210T	Pathophysiology (Theory)	PC	3	1	0	0	4	4
8	21PY1211T	Computer Applications in Pharmacy* (Theory)	BS	3	0	0	0	3	3
9	21PY1211P	Computer Applications in Pharmacy* (Practical)	BS	0	0	2	0	1	2
10	20UC1101	Integrated Professional English	HSS	0	0	4	0	2	4
11	21PY1212T	Environmental sciences * (Theory)	BS	3	0	0	0	3	3
12	21GN40D2	National Caded Cops(NCC)-I/NSS-I	OE	2	0	2	0	3	4
<b>Total</b>				<b>20</b>	<b>4</b>	<b>20</b>	<b>4</b>	<b>34</b>	<b>40</b>
*Non-University Examination (NUE) as per PCI									
SEMESTER - 3									
Sl No	Course Code	Course Title	Type	L	T	P	S	Cr	CH
1	21PY2113T	Pharmaceutical Organic Chemistry II (Theory)	PC	3	1	0	0	4	4
2	21PY2113P	Pharmaceutical Organic Chemistry II (Practical)	PC	0	0	4	0	2	4
3	21PY2114T	Physical Pharmaceutics I (Theory)	PC	3	1	0	0	4	4
4	21PY2114P	Physical Pharmaceutics I (Practical)	PC	0	0	4	0	2	4

  
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5	21PY2115T	Pharmaceutical Microbiology (Theory)	PC	3	1	0	0	4	4
6	21PY2115P	Pharmaceutical Microbiology (Practical)	PC	0	0	4	0	2	4
7	21PY2116T	Pharmaceutical Engineering (Theory)	PC	3	1	0	0	4	4
8	21PY2116P	Pharmaceutical Engineering (Practical)	PC	0	0	4	0	2	4
9	20UC1202	English Proficiency	HSS	0	0	4	0	2	4
10	20UC1203	Design thinking and Innovation	HSS	2	0	2	0	3	4
11	21GN40D3	National Caded Cops(NCC)-2/NSS-2	OE	2	0	2	0	3	4
<b>Total</b>				<b>16</b>	<b>4</b>	<b>20</b>	<b>0</b>	<b>31</b>	<b>40</b>
<b>SEMESTER - 4</b>									
Sl No	Course Code	Course Title	Type	L	T	P	S	Cr	CH
1	21PY2217T	Pharmaceutical Organic Chemistry III (Theory)	PC	3	1	0	0	4	4
2	21PY2218T	Medicinal Chemistry I (Theory)	PC	3	1	0	0	4	4
3	21PY2218P	Medicinal Chemistry I (Practical)	PC	0	0	4	0	2	4
4	21PY2219T	Physical Pharmaceutics II (Theory)	PC	3	1	0	0	4	4
5	21PY2219P	Physical Pharmaceutics II (Practical)	PC	0	0	4	0	2	4
6	21PY2210T	Pharmacology I (Theory)	PC	3	1	0	0	4	4
7	21PY2120P	Pharmacology I (Practical)	PC	0	0	4	0	2	4
8	21PY2121T	Pharmacognosy and Phytochemistry I (Theory)	PC	3	1	0	0	4	4
9	21PY2221P	Pharmacognosy and Phytochemistry I (Practical)	PC	0	0	4	0	2	4
<b>Total</b>				<b>15</b>	<b>5</b>	<b>16</b>	<b>0</b>	<b>28</b>	<b>36</b>
<b>SEMESTER - 5</b>									
Sl No	Course Code	Course Title	Type	L	T	P	S	Cr	CH
1	21PY3122T	Medicinal Chemistry II (Theory)	PC	3	1	0	0	4	4
2	21PY3123T	Industrial Pharmacy I (Theory)	PC	3	1	0	0	4	4
3	21PY3123P	Industrial Pharmacy I (Practical)	PC	0	0	4	0	2	4
4	21PY3124T	Pharmacology II (Theory)	PC	3	1	0	0	4	4
5	21PY3124P	Pharmacology II (Practical)	PC	0	0	4	0	2	4
6	21PY3125T	Pharmacognosy and Phytochemistry II (Theory)	PC	3	1	0	0	4	4
7	21PY3125P	Pharmacognosy and Phytochemistry II (Practical)	PC	0	0	4	0	2	4
8	21PY3126T	Pharmaceutical Jurisprudence (Theory)	PC	3	1	0	0	4	4
9	21PY3123S	Production process for API/Bulk drug/Intermediates	skill	0	0	0	4	1	4
<b>Total</b>				<b>15</b>	<b>5</b>	<b>12</b>	<b>4</b>	<b>27</b>	<b>36</b>
<b>SEMESTER - 6</b>									
Sl No	Course Code	Course Title	Type	L	T	P	S	Cr	CH
1	21PY3227T	Medicinal Chemistry III (Theory)	PC	3	1	0	0	4	4
2	21PY3227P	Medicinal chemistry III (Practical)	PC	0	0	4	0	2	4
3	21PY3228T	Pharmacology III (Theory)	PC	3	1	0	0	4	4
4	21PY3228P	Pharmacology III (Practical)	PC	0	0	4	0	2	4
5	21PY3229T	Herbal Drug Technology (Theory)	PC	3	1	0	0	4	4
6	21PY3229P	Herbal Drug Technology (Practical)	PC	0	0	4	0	2	4
7	21PY3230T	Biopharmaceutics and Pharmacokinetics (Theory)	PC	3	1	0	0	4	4
8	21PY3231T	Pharmaceutical Biotechnology (Theory)	PC	3	1	0	0	4	4
9	21PY3232T	Quality Assurance (Theory)	PC	3	1	0	0	4	4
10	21GN40D6	National Caded Copse-III/NSS-III	OE	2	0	2	0	3	
<b>Total</b>				<b>20</b>	<b>6</b>	<b>14</b>	<b>0</b>	<b>33</b>	<b>36</b>
<b>SEMESTER - 7</b>									
Sl No	Course Code	Course Title	Type	L	T	P	S	Cr	CH
1	21PY4133T	Instrumental Methods of Analysis (Theory)	PC	3	1	0	0	4	4

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2	21PY4133P	Instrumental Methods of Analysis (Practical)	PC	0	0	4	0	2	4	
3	21PY4134T	Industrial Pharmacy II (Theory)	PC	3	1	0	0	4	4	
4	21PY4135T	Pharmacy Practice (Theory)	PC	3	1	0	0	4	4	
5	21PY4136T	Novel Drug Delivery System (Theory)	PC	3	1	0	0	4	4	
6	21PY4137PS	Practice School*	PC	0	0	12	0	6	12	
7	20UC0010	Universal Human Values and Professional Ethics	HSS	2	0	0	0	0	2	
8	21PY4133S	Operation of Analytical Instruments	Skill	0	0	0	4	1	4	
Total				14	4	16	4	25	38	
*Non-University Examination (NUE) as per PCI										
SEMESTER - 8										
Sl No	Course Code	Course Title	Type	L	T	P	S	Cr	CH	
1	21PY4238T	Biostatistics and Research Methodology (Theory)	PC	3	1	0	0	4	4	
2	21PY4239T	Social and Preventive Pharmacy (Theory)	PC	3	1	0	0	4	4	
3	21PY4240ET	Pharma Marketing Management (Theory)	PE	3	1	0	0	4	4	
4	21PY4241ET	Pharmaceutical Regulatory Science (Theory)	PE							
5	21PY4242ET	Pharmacovigilance (Theory)	PE							
6	21PY4243ET	Quality Control and Standardization of Herbals (Theory)	PE							
7	21PY4244ET	Computer Aided Drug Design (Theory)	PE	3	1	0	0	4	4	
8	21PY4245ET	Cell and Molecular Biology (Theory)	PE							
9	21PY4246ET	Cosmetic Science (Theory)	PE							
10	21PY4247ET	Experimental Pharmacology (Theory)	PE							
11	21PY4248ET	Advanced Instrumentation Techniques (Theory)	PE	3	1	0	0	4	4	
12	21PY4249ET	Dietary Supplements and Nutraceuticals (Theory)	PE							
13	21PY4250PW	Project Work	PW	0	0	12	0	6	12	
Total				12	4	12	0	22	28	
GRAND TOTAL				12	6	36	128\$/130#	16	229	292\$
				6			\$/23	30#	/294	#

*G. Chakravarthi*

*15/8/22*

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## Y21 M. Pharmacy Course Structure

SNO	COURSE CODE	COURSE NAME	Type	L	T	P	S	Cr	CH
<b>Ist Semester</b>									
1	21PY5101	Modern Pharmaceutical Analytical Techniques	PC	4	0	0	0	4	4
2	21PY5102	Drug Delivery System	PC	4	0	0	0	4	4
3	21PY5103	Modern Pharmaceutics	PC	4	0	0	0	4	4
4	21PY5104	Regulatory Affair	PC	4	0	0	0	4	4
5	21PY5105	Pharmaceutics Practical I	PC	0	0	12	0	6	12
6	21PY5106	Seminar/Assignment	skill	0	0	8	0	4	8
		Total		16	0	20	0	26	36
<b>II semester</b>									
1	21PY5107	Molecular Pharmaceutics (Nano Tech and Targeted DDS)	PC	4	0	0	0	4	4
2	21PY5108	Advanced Biopharmaceutics & Pharmacokinetics	PC	4	0	0	0	4	4
3	21PY5109	Computer Aided Drug Delivery System	PC	4	0	0	0	4	4
10	21PY5110	Cosmetic and Cosmeceuticals	PC	4	0	0	0	4	4
11	21PY5111	Pharmaceutics Practical II	PC	0	0	12	0	6	12
12	21PY5112	Seminar/Assignment	skill	0	0	8	0	4	8
		Total		16	0	20	0	26	36
<b>III semester</b>									
13	21PY5113	Research Methodology and Biostatistics*	PC	4	0	0	0	4	4
14	21PY5114	Journal club	skill	0	0	2	0	1	2
15	21PY5115	Discussion / Presentation (Proposal Presentation)	skill	0	0	4	0	2	4
16	21PY5116	Research Work	skill	0	0	28	0	14	28
		Total		4	0	34	0	21	38
* Non University Exam (NUE) as per PCI									
<b>IV semester</b>									
17	21PY5117	Journal Club	skill	0	0	2	0	1	2
18	21PY5118	Research Work	skill	0	0	33	0	16	33
19	21PY5119	Discussion/Final Presentation	skill	0	0	6	0	3	6
20	21PY5120	Co-curricular Activities (Attending Conference, Scientific Presentations and Other Scholarly Activities)	skill	0	0	8	0	4	8
		Total		0	0	49	0	24	49
<b>Grand Total</b>				72	0	197	0	97	159

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## Y21 Pharm. D Course Structure

I YEAR								
Sl No	Course Code	Course Title	Type	L	T	P	S	CH
1	21PY6101T	Human Anatomy and Physiology	PC	3	1	0	0	4
2	21PY6101P	Human Anatomy and Physiology	PC	0	0	3	0	3
3	21PY6102T	Pharmaceutics	PC	2	1	0	0	3
4	21PY6102P	Pharmaceutics	PC	0	0	3	0	3
5	21PY6103T	Medicinal Biochemistry	PC	3	1	0	0	4
6	21PY6103P	Medicinal Biochemistry	PC	0	0	3	0	3
7	21PY6104T	Pharmaceutical Organic Chemistry	PC	3	1	0	0	4
8	21PY6104P	Pharmaceutical Organic chemistry	PC	0	0	3	0	3
9	21PY6105T	Pharmaceutical Inorganic Chemistry	PC	2	1	0	0	3
10	21PY6105P	Pharmaceutical Inorganic Chemistry	PC	0	0	3	0	3
11	21PY610B6T/ 21PY610M6T	Remedial Biology/Remedial Mathematics	BS	3	1	0	0	4
12								
13	21PY610B6P	Remedial Biology	BS	0	0	3	0	3
<b>Total</b>				<b>16</b>	<b>6</b>	<b>18</b>	<b>0</b>	<b>40</b>
II YEAR								
Sl No	Course Code	Course Title		L	T	P	S	CH
1	21PY6201T	Pathophysiology	PC	3	1	0	0	4
2	21PY6202T	Pharmaceutical Microbiology	PC	3	1	0	0	4
3	21PY6202P	Pharmaceutical Microbiology	PC	0	0	3	0	3
4	21PY6203T	Pharmacognosy& Phytopharmaceuticals	PC	3	1	0	0	4
5	21PY6203P	Pharmacognosy& Phytopharmaceuticals	PC	0	0	3	0	3
6	21PY6204T	Pharmacology-I	PC	3	1	0	0	4
7	21PY6205T	Community Pharmacy	PC	2	1	0	0	3
8	21PY6206T	Pharmacotherapeutics-I	PC	3	1	0	0	4
9	21PY6206P	Pharmacotherapeutics-I	PC	0	0	3	0	3
<b>Total</b>				<b>17</b>	<b>6</b>	<b>9</b>	<b>0</b>	<b>34</b>
III YEAR								
Sl No	Course Code	Course Title	Type	L	T	P	S	CH
1	21PY6301T	Pharmacology-II	PC	3	1	0	0	4
2	21PY6301P	Pharmacology-II	PC	0	0	3	0	3
3	21PY6302T	Pharmaceutical Analysis	PC	3	1	0	0	4
4	21PY6302P	Pharmaceutical Analysis	PC	0	0	3	0	3
5	21PY6303T	Pharmacotherapeutics-II	PC	3	1	0	0	4
6	21PY6303P	Pharmacotherapeutics-II	PC	0	0	3	0	3
7	21PY6304T	Pharmaceutical Jurisprudence	PC	2	0	0	0	2
8	21PY6305T	Medicinal Chemistry	PC	3	1	0	0	4
9	21PY6305P	Medicinal Chemistry	PC	0	0	3	0	3
10	21PY6306T	Pharmaceutical Formulations	PC	2	1	0	0	3

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11	21PY6306P	Pharmaceutical Formulations	PC	0	0	3	0	3
<b>Total</b>				<b>16</b>	<b>5</b>	<b>15</b>	<b>0</b>	<b>36</b>
<b>IV YEAR</b>								
Sl No	Course Code	Course Title	Type	L	T	P	S	CH
1	21PY6401T	Pharmacotherapeutics-III	PC	3	1	0	0	4
2	21PY6401P	Pharmacotherapeutics-III	PC	0	0	3	0	3
3	21PY6402T	Hospital Pharmacy	PC	2	1	0	0	3
4	21PY6402P	Hospital Pharmacy	PC	0	0	3	0	3
5	21PY6403T	Clinical Pharmacy	PC	3	1	0	0	4
6	21PY6403P	Clinical Pharmacy	PC	0	0	3	0	3
7	21PY6404T	Biostatistics & Research Methodology	PC	2	1	0	0	3
8	21PY6405T	Biopharmaceutics & Pharmacokinetics	PC	3	1	0	0	4
9	21PY6405P	Biopharmaceutics & Pharmacokinetics	PC	0	0	3	0	3
10	21PY6406T	Clinical Toxicology	PC	2	1	0	0	3
<b>Total</b>				<b>15</b>	<b>6</b>	<b>12</b>	<b>0</b>	<b>33</b>
<b>V YEAR</b>								
Sl No	Course Code	Course Title	Type	L	T	P	S	CH
1	21PY6501T	Clinical Research	PC	3	1	0	0	4
2	21PY6502T	Pharmacoepidemiology and Pharmacoeconomics	PC	3	1	0	0	4
3	21PY6503T	Clinical Pharmacokinetics & Pharmacotherapeutic Drug Monitoring	PC	2	1	0	0	3
4	21PY650N4	Clerkship	PC	0	1	0	0	1
5	21PY650E5	Project work (Six Months)	PC	0	0	20	0	20
<b>Total</b>				<b>8</b>	<b>4</b>	<b>20</b>	<b>0</b>	<b>32</b>
<b>VI YEAR</b>								
Sl No	Course Code	Course Title	Type	L	T	P	S	CH
1	21PY660N1	Internship	PC	0	0	40		40
<b>Total</b>				<b>0</b>	<b>0</b>	<b>40</b>	<b>0</b>	<b>40</b>
<b>GRAND TOTAL</b>				<b>74</b>	<b>27</b>	<b>114</b>	<b>0</b>	<b>215</b>

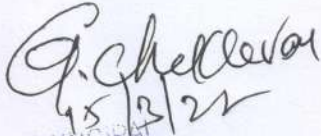
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*G. Cheluvu*  
 15/3/22



**Annexure VII: Value added courses**

S.NO	Offered By	Offered to	Batch	Course Code	Course Name	Company Name / VENDOR	Category	Mode of learning	START DATE	END DATE	Course duration	CC
1	Cavaxia	B.Pharm & M.Pharm	Y18 - Y22	NA	Clinical Data Management	Cavaxia	Employability	Online	Self paced	Self paced	12 weeks	Dr D Naresh
3	Cavaxia	B.Pharm & M.Pharm	Y18 - Y22	NA	Pharmacovigilance	Cavaxia	Employability	Online	Self paced	Self paced	14 weeks	Dr D Naresh
4	Cavaxia	B.Pharm & M.Pharm	Y18 - Y22	NA	Statistical Analytical Systems	Cavaxia	Employability	Online	Self paced	Self paced	15 weeks	Dr D Naresh
5	Cavaxia	B.Pharm & M.Pharm	Y18 - Y22	NA	Regulatory Affairs	Cavaxia	Employability	Online	Self paced	Self paced	16 weeks	Dr D Naresh

  
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**Annexure VIII: MOOCs Courses**

The following courses are run as additional courses with no credits for the A.Y. 2022-23

1. Analytical Techniques
2. Dietary management in Health and Diseases.
3. Research Ethics

G. Chellappa  
18/3/22

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**Annexure IX:**

**Justification of work in lieu courses**

**Course I: Industrial Pharmacy**

**Expected Outcome:** The student is expected to learn the working of different equipments like mixers, granulators, dryers, tablet punching machines, Coating equipments, capsule filling machines, roller mills, ampoule sealing machines, packaging equipments. Furthermore, students will be getting knowledge on manufacturing procedures and evaluation techniques for different dosage forms.

**Expected Activities:** Students will be handling various equipments to manufacture and evaluation of dosage forms.

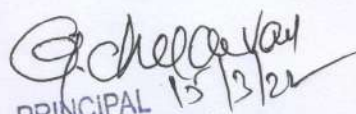
**Evaluation:** Based on the above activities performed by the student in learning the process to manufacture, evaluation and packing of dosage forms, the concerned manager belonging to the respective area will evaluate the student.

**Course II: Pharmacy Practice**

**Expected Outcome:** The student is expected to visit the hospital and learn the different case studies by studying and reviewing the prescriptions, visiting different wards like pediatrics, dermatology, orthopedic, ENT, General and ICU wards. Furthermore students will be getting knowledge on patient counseling activity and create the awareness to patients by providing knowledge about the medication and their errors.

**Expected Activities:** Students will be handling inpatient, outpatient prescriptions, monitoring and reviewing of different cases in various wards.

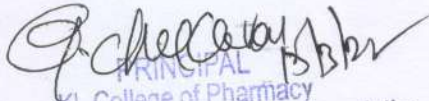
**Evaluation:** Based on the above activities performed by the student in the reviewing of case studies, the concerned head of the department will evaluate the student.

  
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**Annexure X:**

**List of modifications in Pre Ph.D courses in Department of Pharmacy**

<b>16 PH 303: Advanced Pharmacognosy and Phytochemistry</b>		
<b>Original</b>	<b>Modified</b>	<b>Remarks</b>
Unit II: 01. Natural product drug discovery from different sources (Marine , Microbial, Mineral etc) : Introduction, recent development, methods of extraction and isolation, applications etc	Natural product drug discovery from different sources (Plant, animal, Marine , Microbial, Mineral etc) : Introduction, recent development, methods of extraction and isolation, applications <b>in spectroscopic and chromatographic techniques.</b>	
Unit II: 02. Extraction and Isolation techniques: Introduction, Principle and Applications of different extraction & isolation methods viz Soxhlet extraction, microwave extraction, supercritical fluid extraction, solid phase extraction, Column chromatography, Flash chromatography etc.	-	As it already covered in Unit-II 01 section.
<b>16 PH 302: ADVANCED PHARMACOLOGY</b>		
Unit II: 02. Toxicity studies: acute, subacute (Repeated dose), subchronic and chronic toxicity.	02. Toxicity studies: acute, subacute (Repeated dose), subchronic and chronic toxicity. <b>Carcinogenicity and mutagenicity</b>	Advancement in topics related to toxicity studies.
Unit IV: Recent trends on different classes of receptors and drugs acting on them: (i) Angiotensin receptors (ii) Excitatory amino acid receptors (iii) Kinin receptors (iv) Adrenoceptors (v) Low molecular weight heparins, hirudins and GP II/IIIa receptor antagonists (vi) Imidazole receptors (vii) Cholinergic receptors	Unit IV: Recent trends on different classes of receptors and drugs acting on them: (i) Angiotensin receptors (ii) Excitatory amino acid receptors (iii) Kinin receptors (iv) Adrenoceptors (v) Low molecular weight heparins, hirudins and GP II/IIIa receptor antagonists (vi) Imidazole receptors (vii) Cholinergic receptors	Clinical importance for Tau and NMDA receptors

  
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(viii) Dopamine receptors (ix) Serotonin receptors (x) Hormone receptors (xi) GABA and Benzodiazepine receptors (xii) Opioid receptors (xiii) Purinergic receptors (xiv) Glutamate receptors	(viii) Dopamine receptors (ix) Serotonin receptors (x) Hormone receptors (xi) GABA and Benzodiazepine receptors (xii) Opioid receptors (xiii) Purinergic receptors (xiv) Glutamate receptors <b>(xv) Tau receptors</b> <b>(xvi) NMDA receptors</b>	
Unit V b) Immunopharmacology: antibody dependent and cellular cytotoxicity. Monoclonal antibodies and its importance	Unit V b) Immunopharmacology: antibody dependent and cellular cytotoxicity. <b>Targeted therapies</b> and monoclonal antibodies and its importance	Targeted therapies knowledge is required to understand the concept of monoclonal antibodies.
<b>16 PH 304: ADVANCED PHARMACEUTICAL ANALYSIS</b>		
Unit -I: 02. Regulatory requirement in pharmaceutical analysis - US-FDA, ICH	Unit -I: 02. Regulatory requirement in pharmaceutical analysis - US-FDA, ICH, <b>Analytical method developments and validation protocols</b>	Essential to understand the analytical components.
Unit-III 02. a) Quality control of radio pharmaceuticals and radio chemical method in analysis.	Unit-III 02. a) Quality control of radio pharmaceuticals and radio chemical method in analysis. Principle, procedure And applications of ELISA, Bioluminescence assay and RIA.	Required in bioanalytical studies in recent trends.
<b>16 PH 305: ADVANCED MEDICINAL CHEMISTRY</b>		
Unit II: General principles, Identification and study of targets for development of various therapeutic agents, Rational approach for drug design, Computer aided drug design, Study of recently developed drugs and molecules in development pipeline.	General principles, Identification and study of targets for development of various therapeutic agents, Rational approach for drug design, Study of recently developed drugs and molecules in development pipeline. <b>Applications and spectroscopic methods like UV, IR, NMR and Mass data in structural elucidation of natural, synthetic and semisynthetic drugs.</b>	Computer aided drug design is already covered in Unit V. Structural elucidation techniques are essential for all chemists in terms of their practical knowledge.

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 Koneru Lakshmaiah Educational Institutions  
 (Deemed to be University)  
 Green Fields, Vaddeswaram-522602  
 Guntur District, Andhra Pradesh.

*S. Chaitanya*  
 15/3/22