



ਪੰਜਾਬ ਕੇਂਦਰੀ ਯਿਸ਼ਵਵਿਧਾਲਯ
ਸਨ 2009 ਵਿੱਚ ਆਇਨ 25 (2009) ਦੁਆਰਾ ਸਥਾਪਿਤ
Central University of Punjab
Established vide Act No. 25 (2009) of Parliament

Department of Human Genetics and Molecular Medicine

Ref. No.:

Date: 14/02/2020

Sub.: Minutes of the Department Board of Studies Meeting for Academic Session 2020-2022, held on 14/02/2020

The Department Board of Studies (BoS) meeting was held at Department Office at the 10.30 am onwards on 14th February 2020 to discuss the agenda detailed below. Following members attended the meeting:

- Prof. Anjana Munshi (HOD & Chairperson)
- Prof. Vasuda Sambyl (Online)
- Prof. Rama Krishna Wusirika
- Prof. Raj Kumar
- Dr. Sandeep Singh
- Dr. Sabyasachi Senapati
- Dr. Prabhat Suman

Co-opted member:

Dr. Jasvinder Singh Bhatti
Dr. Preeti Khetarpal

The agenda of the meeting was:

Agenda 1: To review and approve the proposed changes, course structure and syllabus of M.Sc. Life Sciences with Specialization in Human Genetics and M.Sc. Life Sciences with Specialization in Molecular Medicine for academic session 2020-2022

Agenda 2: To review and approve the proposed changes, course structure and syllabus for PhD in Human Genetics and PhD in Molecular Medicine for academic session 2020-2020

The items discussed and thereby changes incorporated in various courses are:

Item no 1: Syllabus for M.Sc. Life Sciences with Specialization in Human Genetics and M.Sc. Life Sciences with Specialization in Molecular Medicine for academic session 2020-2022

• Common changes to both the courses

1. Major modifications have been in the "Programme Outcome" section
2. Suggested readings for all the Courses have been updated
3. Learning outcomes for all the Courses have been updated
4. Evaluation criteria for Theory courses, Practical courses, Seminar and Project work have been included in the syllabus
5. Total credits of both the programs are reduced to 90 from 92 (Sem-I: 22 credit; Sem-II: 24 credit; Sem-III: 23 credit; and Sem-IV: 21)

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WRK

Anjana

Raj

Sabya

Prabhat

Jasvinder Singh Bhatti
Preeti Khetarpal



ਪੰਜਾਬ ਕੇਂਦਰੀय विश्वविद्यालय

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• Specific changes to M.Sc. Life Sciences with Specialization in Human Genetics course

6. LHG.508 (Cellular and Molecular Biology) and LHG.509 (Cellular and Molecular Biology-Practical) have been renamed as LMM.508 (Cellular and Molecular Biology) and LMM.509 (Cellular and Molecular Biology-Practical) respectively.
7. LHG.512. Concepts of Genetics: Unit-I and Unit-III were modified. Sex determination portion now added in Unit-I from Unit-III. New portion "Microbial Genetics" has been introduced in Unit-III.
8. LHG.514 Human Cytogenetics and Human Biochemical Genetics has been shifted to Semester-II as LHG.526 Human Cytogenetics and Human Biochemical Genetics.
9. Course codes for IDC courses changed as follows: LHG.515 now changed to LHG.514 (Basics of Human Genetics); LHG 516 has been changed to LHG.515 (Introduction to Intellectual Property Rights)
10. To match with the recent updates, LHG.521 (Human Physiology) and LHG.522 (Human Physiology-Practical) are replaced with new courses LHG.529 (Human Anatomy and Physiology) and LHG.530 (Human Anatomy and Physiology-Practical) respectively. Credits for these courses remain same as before.
11. LHG.523 (Essentials of Immunology) has been renamed as LMM.523 (Essentials of Immunology).
12. LHG.525. Human Embryology and Developmental Genetics: Unit-I is now renamed as "Basic concepts of development" previously it was "Reproductive Physiology". Details of the reproductive physiology are covered in LHG.529. Human Anatomy and Physiology, in the same semester. added Unit-II has been modified and repetitive sections deleted. One more topic on "homeotic genes". Unit-III merged with Unit-I. Detailed topic on "Stem Cell and Organogenesis" are now have been included in unit-III.
13. Elective Course-II has been shifted to Semester-III, and course Code of Population Genetics and Genetics Epidemiology (LHG.526) changed to LHG. 554.
14. LHG.553 (Pharmacogenomics and Nutrigenomics): Syllabus of Unit-II was modified to suit with the recent updates in this field. Unit-III is renamed as "Nutrigenomics in determining health" Previously it was "Nutrigenomics vs Nutrigenetics" A topic "therapeutic approaches through microbiota transplantation" has been added in the Unit-IV.
15. Course code for LHG.554 (Clinical Genetics) has been changed as per University Guidelines and renamed as LHG.503.
16. MOOC course shifted under Elective Course-II. **The students are given option to select 1 course out of 2 elective courses offered by the department or MOOC course of same/more credits. Standalone MOOC course is now removed from the course.**
17. LHG.572 (Advanced Practical Course in Human Genetics) a 03-credit course is removed from the syllabus.
18. A 04-credit course, LHG.552 (Genetic Disease and Therapies) has been transferred from Semester-III to Semester-IV. Course code is now changed to LHG.572
19. Credits for Seminar-II has been increased to 02.

• Specific changes to M.Sc. Life Sciences with Specialization in Molecular Medicine course

1. Minor modifications in course content of Cellular and Molecular Biology (LMM.508)
2. Basic and Clinical Biochemistry (LMM.510) course has now been renamed as Biochemistry. The course content has been completely revised.



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3. Basic and Clinical Biochemistry (LMM.511) practical course has now been renamed as Biochemistry-Practical. Practical list has been updated.
4. Course content of Concepts of Genetics (LHG.512) has been modified and updated.
5. LMM.524-Techniques in Molecular Medicine course has been revised to exclude the repetitions.
6. Trends in Molecular Medicine course has been shifted from semester-I with new course code LMM.526.
7. Advanced Practical Course in Molecular Medicine (LMM.553) has been shifted from semester-IV to semester-III. The credit hours have now been revised to 4 with inclusion of new techniques relevant to the subject.
8. Elective Course-2 (EC-2) has been shifted from semester-II to semester-III and has been renamed as EC-2/MOOC. The students are given option to select 1 course out of 2 elective courses offered by the department or MOOC course of same/more credits. Standalone MOOC course is now removed from the course.
9. Molecular Endocrinology and Signal Transduction course (LMM.572) has been shifted from semester-III to semester-IV.
10. Credit hours for course Credit Seminar-II (LMM.544) has been revised to 2.
11. Value Added Course (LMM.572: Regenerative Medicine) has been removed and new course LHG.505: Principles of Ecological Sciences has been included.

Item no 2: Syllabus for PhD in Human Genetics and PhD in Molecular Medicine for academic session 2020-2020

• Common changes to both the courses

1. As per the UGC notification, 02-Credit course on "Research and Publication Ethics" was added in PhD course-work syllabus.

• Specific changes to Ph.D in Human Genetics course

2. 5-credit core course LHG.701 (Research Methodology and Biostatistics) has been modified. Credit was reduced to 04.
3. Credit for LHG.702 (Advanced Human Genomics and Epigenetics) has been reduced to 4 from earlier 5.

• Specific changes to Ph.D in Molecular Medicine course

1. Credit hours for courses LMM.701 and 702 have been revised to 4 from earlier 5 as per instructions of IQAC.
2. The course content has been revised for both the unites.

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Co-opted member

Dr. Preeti Khetarpal
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Dr. Prabhat Suman
Students' representative