

University of Mumbai



AAMS_UGS /ICC/2022-23/82

CIRCULAR:-

Sub :- Certificate Course in Intellectual Property Rights

Ref :- RB/MU-2022/CR-207/Edn-5/899, dated 18th August, 2022.

All the Principals of the Affiliated Colleges, the Head of the University Department and Directors of the recognized Institutions in Faculty of Science and Technology are hereby informed that the recommendations made by the Ad-hoc Board of Studies in **Pharmacy** at its online meeting held on 17th March, 2022 vide item No. 1 and subsequently passed in the faculty of Science & Technology and then by the Board of Deans at its online meeting held on 2nd May, 2022 vide item No. 6.1 (N) have been accepted by the Academic Council at its meeting held on 17th May, 2022, vide item No. 6.4 (N) and subsequently approved by the Management Council at its meeting held on 25th May, 2022 vide item No. 4 and that in accordance therewith, in exercise of the powers conferred upon the Management Council under Section 74(4) of the Maharashtra Public Universities Act, 2016 (Mah. Act No. VI of 2017) the Ordinance 6791 & 6792 Regulations 9549 to 9551 and the syllabus of **Certificate Course in Intellectual Property Rights** has been introduced and the same have been brought into force with effect from the academic year 2022-23, accordingly. (The same is available on the University's website www.mu.ac.in).

MUMBAI – 400 032
20th August, 2022


(Dr. Vinod Patil)
I/c. REGISTRAR

To,

The Principals of the Affiliated Colleges, the Head of the University Department and Directors of the recognized Institutions in Faculty of Science and Technology.

A.C/6.4(N)/17/5/2022
M.C/4/25/5/2022

AAMS_UGS/ICC/2022-23/82

20th August, 2022

Copy forwarded with Compliments for information to:-

- 1) The Chairman, Board of Deans
- 2) The Dean, Faculty of Science and Technology,
- 3) The Chairman, Ad-hoc Board of Studies in Pharmacy,
- 4) The Director, Board of Examinations and Evaluation,
- 5) The Director, Board of Students Development,
- 6) The Director, Department of Information & Communication Technology,
- 7) The Co-ordinator, MKCL.


(Dr. Vinod Patil)
I/c. REGISTRAR

Copy to :-

- 1. The Deputy Registrar, Academic Authorities Meetings and Services (AAMS),**
- 2. The Deputy Registrar, College Affiliations & Development Department (CAD),**
- 3. The Deputy Registrar, (Admissions, Enrolment, Eligibility and Migration Department (AEM),**
- 4. The Deputy Registrar, Research Administration & Promotion Cell (RAPC),**
- 5. The Deputy Registrar, Executive Authorities Section (EA),**
- 6. The Deputy Registrar, PRO, Fort, (Publication Section),**
- 7. The Deputy Registrar, (Special Cell),**
- 8. The Deputy Registrar, Fort/ Vidyanagari Administration Department (FAD) (VAD), Record Section,**
- 9. The Director, Institute of Distance and Open Learning (IDOL Admin), Vidyanagari,**

They are requested to treat this as action taken report on the concerned resolution adopted by the Academic Council referred to in the above circular and that on separate Action Taken Report will be sent in this connection.

- 1. P.A to Hon'ble Vice-Chancellor,**
- 2. P.A Pro-Vice-Chancellor,**
- 3. P.A to Registrar,**
- 4. All Deans of all Faculties,**
- 5. P.A to Finance & Account Officers, (F.& A.O),**
- 6. P.A to Director, Board of Examinations and Evaluation,**
- 7. P.A to Director, Innovation, Incubation and Linkages,**
- 8. P.A to Director, Board of Lifelong Learning and Extension (BLLE),**
- 9. The Director, Dept. of Information and Communication Technology (DICT) (CCF & UCC), Vidyanagari,**
- 10. The Director of Board of Student Development,**
- 11. The Director, Department of Students Welfare (DSD),**
- 12. All Deputy Registrar, Examination House,**
- 13. The Deputy Registrars, Finance & Accounts Section,**
- 14. The Assistant Registrar, Administrative sub-Campus Thane,**
- 15. The Assistant Registrar, School of Engg. & Applied Sciences, Kalyan,**
- 16. The Assistant Registrar, Ratnagiri sub-centre, Ratnagiri,**
- 17. The Assistant Registrar, Constituent Colleges Unit,**
- 18. BUCTU,**
- 19. The Receptionist,**
- 20. The Telephone Operator,**
- 21. The Secretary MUASA**

for information.

UNIVERSITY OF MUMBAI



Syllabus **For** **Certificate Course in** **Intellectual Property Rights**

(To introduce with effect from the academic year 2022-23)

UNIVERSITY OF MUMBAI



Syllabus for Approval

Sr. No.	Heading	Particulars
1	Title of the Course <i>O. 6791</i>	Certificate Course in Intellectual Property Rights
2	Eligibility for Admission <i>O. 6792</i>	A candidate for being eligible at admission to the Certificate Course in 'Intellectual Property Rights' must be student pursuing UG/ PG / Ph.D. program in Pharmacy; preferably completed two years of a graduation program in Pharmacy.
3	Passing Marks <i>R. 9549</i>	50%
4	Ordinances / Regulations (if any)	----
5	No. of Years / Semesters / Duration of Course	30 Hours
6	Level	Certificate/Diploma/UG/PG (Strike out which is not applicable)
7	Pattern	Not Applicable
8	Status	Revised/ New / Amended (Strike out which is not applicable)
9	To be implemented from Academic Year	From Academic Year : 2022-2023

Date:

Signature: *Supriya Shidhaye*

Name: Prof. Supriya Shidhaye
Chairperson of BoS of Pharmacy

Signature: *Anuradha Majumdar*

Dr. Anuradha Majumdar
Dean, Science and Technology

PREAMBLE

This is with reference to the AICTE Initiative & University of Mumbai guidelines, Intellectual Property Rights (IPR), thirty hours Value added certificate course is introduced from the academic Year 2022-23. The students may take up this course as value-added certificate course offered by their institute while pursuing their education in pharmacy.

The Primary aim and scope of this 30 hours certificate course is to impart specific skills that students must acquire during their academic program with the aim of preparing well-rounded learners and to make the candidates employable as entry-level resources in the domains of Intellectual property rights, Patent filing, searching and analysis in Pharmaceutical/Life science industry. The Program will serve as a sound introduction to the IPR domain for Pharmacy students even if they plan on not joining the domain in their industry career. The syllabus for the course shall be subjected to revision after every three years.

CERTIFICATE COURSE IN INTELLECTUAL PROPERTY RIGHTS

- O. 6791: Title of Course**
"Certificate Course in Intellectual Property Rights"
- O.6792: Eligibility**
A candidate for being eligible at admission to the Certificate Course in 'Intellectual Property Rights' must be student pursuing UG/ PG / Ph.D. program in Pharmacy; preferably completed two years of a graduation program in Pharmacy.
- R.9550 : Duration of Course**
30 Hours
- R.9551: Intake Capacity:**
Maximum 45 candidates in one batch
- Teachers:** Subject experts from HEIs and industry having the domain knowledge
- Regulation: Fees**
It is an autonomous value-added paid course conducted at the Institution level. Examination will be conducted by the Institute and certificate will be issued by the Institute. However, the certificate will be jointly signed by the principal and Director, BOEE with logos of both organisations appearing on the certificate. All financial aspects will be taken care by the institution running the course. There won't be any provision for sharing of fees with University of Mumbai.

EXAMINATION/ ASSESSMENT AND GRADING:

The certificate course shall be conducted at the Institute level. The institute shall conduct an examination and issue a certificate of completion of the course with credits assigned.

Performance assessment of every registered learner is to be carried out through various modes of examinations. These include Internal Assessment and Course Completion Exam.

Table-1: Scheme for Assessment

Nature of Assessment	Nomenclature	Maximum Marks
Internal Assessment/ Continuous Mode of Assessment: to be conducted intermittently during the course conduction	Quiz 1	10
	Quiz 2	10
	Quiz 3	10
	Quiz 4	10
Course Completion Exam: to be conducted upon completion of the course	Course Completion Exam	60
	Total	100

Paper pattern for Internal Assessment i.e. Quiz

Question paper pattern for Quiz:

I. Multiple Choice Questions (MCQs) [Duration: 20 Mins] = 10 x 1 = 10

(Answer all the questions)

Total = **10 marks**

Paper pattern for Course Completion Exam

Question paper pattern for Course Completion Exam:

MCQs: (Answer all the questions) [Duration: 60 Mins] = 30 x 2 = 60

Total = **60 marks**

GRADING OF PERFORMANCES

- Letter grades and grade points allocations:**

Based on the performances, each student shall be awarded a final letter grade at the completion of the course. The letter grades and their corresponding grade points are given in Table – 2.

Table – 2: Letter grades and grade points equivalent to Percentage of marks and performances

Percentage of Marks Obtained	Letter Grade	Performance
90.00 – 100	O	Outstanding
80.00 – 89.99	A	Excellent
70.00 – 79.99	B	Good
60.00 – 69.99	C	Fair
50.00 – 59.99	D	Average
Less than 50	F	Fail
Absent	AB	Fail

A learner who remains absent for Course Completion Examination shall be assigned a letter grade of AB and a corresponding grade point of zero. He/she should reappear for the said evaluation/examination in due course.

CRITERIA FOR AWARD OF THE CERTIFICATE:

A student shall be declared **PASS** and eligible for getting the certificate of completion of the course if he/she secures at least **50%** marks in the course out of total 100 marks. There is no separate criteria for passing in individual head of assessment.

The list of the students successfully completing the certificate course will be submitted by the host institute to University of Mumbai along with the certificate signed by the head of the host institute. The certificate will be jointly signed by the head of the host institute and Director, Board of examination and evaluation and will bear logo of both- host institute and University of Mumbai.

The detailed syllabus of the **Intellectual Property Rights (IPR)** certificate course is given in the consequent section of this document.

Dr. Anuradha Majumdar (Dean, Science and Technology)
Prof. Shivram Garje (Associate Dean, Science)
Prof. Supriya Shidhaye (Chairperson BoS)
Dr. Shrirang Joshi (Member BoS)
Prof. K.G. Akamanchi (Member BoS)
Prof. Krishna Iyer (Member BoS)
Prof. Rajani Athawale (Member BoS)
Dr. Mohan Kale (Member BoS)
Dr. Meena Kanyalkar (Member BoS)
Mr. Sunil Patil (Co-founder and Technical Advisor, Inorim Life Sciences LLP)

Intellectual Property Rights (IPR)

(Total Hours- 30)

Course Code	Course Name	Credits
PH-IPR	Intellectual Property Rights (IPR)	03

- **Prerequisites:** Basic understanding of Intellectual Properties, Patents, Trademarks, Copyrights and designs.
 - Demonstrate in depth understanding concepts of IPR and its importance, relevance and execution in the Pharmaceutical / Life science industries.
 - Demonstrate knowledge about the use of suitable analytical tools for the high-quality, reliable, and statistically sound data from IPR.

This will make them employable in the IPR associated Consultants and companies, and startups for jobs

associated with IPR.

- **Objectives:**

- To introduce fundamental aspects of Intellectual property Rights to students who are going to play a major role in development and management of innovative projects in industries.
- To disseminate knowledge on patents, patent regime in India and abroad and registration aspects, patent drafting and searching
- To disseminate knowledge on copyrights and its related rights and registration aspects
- To disseminate knowledge on trademarks and registration aspects
- To disseminate knowledge on Design, Geographical Indication (GI), Plant Variety and Layout Design Protection and their registration aspects
- To aware about current trends in IPR and Govt. steps in fostering IPR

- **Course Outcomes:**

- Upon completion of this course the students shall get adequate knowledge on patent and copyright for their innovative research works
- During their research career, the knowledge gained through this course shall provide useful insights on the novelty of their idea from a state-of-the-art patent search. This provides a further way for developing their idea or innovations.
- This course shall pave the way for the students to catch up Intellectual Property(IP) as a career option such as:
 - R&D IP Counsel
 - Government Jobs – Patent Examiner
 - Private Jobs in Pharmaceutical sector related to patent search, patent drafting and patent filing.
 - Patent agent and Trademark agent
 - Entrepreneur

- **Course content:**

Unit no.	Course content (topics and subtopics)	Hours
1.	Introduction and the need for intellectual property right (IPR)	1
	Types of Intellectual Property Rights: Patent, Copyright, Trade Mark, Design, Geographical Indication, Plant Varieties and Layout Design – Genetic Resources and Traditional Knowledge – Trade Secrets	
	IPR in India : Genesis and development	1
	IPR in abroad - Major International Instruments concerning Intellectual Property Rights: Paris Convention, 1883, the Berne Convention, 1886, the Universal Copyright Convention, 1952, the WIPO Convention, 1967, the Patent Co-operation Treaty, 1970, the TRIPS Agreement, 1994	2
2.	Patents - Elements of Patentability: Novelty , Non Obviousness (Inventive Steps)	1
	Industrial Application - Non - Patentable Subject Matter - Registration Procedure, Rights and Duties of Patentee, Assignment and license , Restoration of lapsed Patents, Surrender and Revocation of Patents	2
	Patent Infringement, Remedies & Penalties – Patent Office and Appellate Board.	1
	Patent/Prior art search: Types and tools of patent search	2

	Patent drafting: Elements in patent drafting	2
3.	Copyrights - Nature of Copyright - Subject matter of copyright: original literary, dramatic, musical, artistic works; cinematograph films and sound recordings Registration Procedure, Term of protection, Ownership of copyright, Assignment and license of copyright Copyright Infringement, Remedies & Penalties – Related Rights - Distinction between related rights and copyrights	1 2 2
4.	Trademarks - Concept of Trademarks - Different kinds of marks (brand names, logos, signatures, symbols, well-known marks, certification marks and service marks) - Non Registrable Trademarks Registration of Trademarks - Rights of holder and assignment and licensing of marks Trademark Infringement, Remedies & Penalties - Trademarks registry and appellate board	1 2 2
5.	Design: meaning and concept of novel and original - Procedure for registration, effect of registration and term of protection Geographical indication: meaning, and difference between GI and trademarks - Procedure for registration, effect of registration and term of protection Plant Variety Protection Plant variety protection: meaning and benefit sharing and farmers' rights – Procedure for registration, effect of registration and term of protection Layout Design Protection Layout Design protection: meaning – Procedure for registration, effect of registration and term of protection	2 2 1 1
6.	Current contour: India's New National IP Policy, 2016 – Govt. of India step towards Promoting IPR – Govt. Schemes in IPR – Career Opportunities in IP - IPR in current scenario with case studies	1 1
	Total	30

References:

1. B.L. Wadera, Patents, trademarks, copyright, Designs and Geographical Judications.
2. P. Narayanan (Eastern Law House), Intellectual Property Law.
3. Nithyananda, K V. (2019). *Intellectual Property Rights: Protection and Management*. India, IN: Cengage Learning India Private Limited.
4. Neeraj, P., & Khusdeep, D. (2014). *Intellectual Property Rights*. India, IN: PHI learning Private Limited.
5. Ahuja, V K. (2017). *Law relating to Intellectual Property Rights*. India, IN: Lexis Nexis.
6. Subramanian, N., & Sundararaman, M. (2018). *Intellectual Property Rights – An Overview*. Retrieved from <http://www.bdu.ac.in/cells/ipr/docs/ipr-eng-ebook.pdf>
7. World Intellectual Property Organisation. (2004). *WIPO Intellectual property Handbook*. Retrieved from https://www.wipo.int/edocs/pubdocs/en/intproperty/489/wipo_pub_489.pdf
8. Journal of Intellectual Property Rights (JIPR): NISCAIR

Useful Websites:

1. Cell for IPR Promotion and Management (<http://cipam.gov.in/>)
2. World Intellectual Property Organization (<https://www.wipo.int/about-ip/en/>)
3. Office of the Controller General of Patents, Designs & Trademarks (<http://www.ipindia.nic.in/>)
4. <https://www.uspto.gov/>
5. <https://worldwide.espacenet.com/>

(Appendix 'B')

**New ordinances 6791 & 6792 relating to the
Certificate Course in Intellectual Property Rights**

1	Necessity of starting these courses
	The primary aim and scope of suggesting value-added course under mentioned is to boost the employability of the B. Pharm students and to help them to be at par with global trends and global technology. In the modern era, Intellectual property rights plays a significant role on trade of every nation. In this digitized world, there stands a higher risk of creative ideas getting stolen without the consent of the author. The need for strong IP laws gives an overall contribution in the economy of the respective state. IPR is one of the sources of security for intangible properties which are still open to the public and which can be quickly replicated by anyone. IP crimes have become the part and parcel of the digitized era leading to failure of business ideas.
2	Whether UGC has recommended to start the said courses?
	UGC Quality mandate states that to ensure holistic development of the students at the university/college level, efforts need to be made to reorient the teaching pattern with a focus on all types of courses including Elective courses — chosen by students from other departments as per their aptitude. UGC Quality mandate mentions Learning Outcome-based Curriculum Framework (LOCF) — revision of curriculum in regular intervals. Under this objective, UGC suggests that HEIs should boost the employability of graduates through curriculum reform. National Education Policy (chapter 20.1) mentions –Indian professionals must involve an education in the ethic and importance of public purpose, an education in the discipline, and an education for practice. It must centrally involve critical and interdisciplinary thinking, discussion, debate, research, and innovation. As per National Education Policy (chapter 20.4) Indian legal education needs to be competitive globally, adopting best practices and embracing new technologies for wider access to and timely delivery of justice. At the same time, it must be informed and illuminated with Constitutional values of Justice - Social, Economic, and Political - and directed towards national reconstruction through instrumentation of democracy, rule of law, and human rights.
3	Whether all the courses have commenced from the academic year 2022-23?

	It is proposed to be introduced from academic year 2022-23. Since it is a value-added course, not confined within the framework of syllabus of B. Pharm/ M. Pharm / Ph.D. for award of degree or credit transfer, any affiliated Pharmacy college can conduct the course based on the availability of the resource persons and interest of the students. Students may take up the course as per their interests. Any student pursuing UG/ PG / Ph.D. program in Pharmacy is eligible for admission to this course, preferably completed two years of a graduation program in Pharmacy.
--	--

4	The courses started by the University are self-financed, whether adequate number of eligible permanent faculties are available?
	It is a paid course. It is optional for the UOM-affiliated colleges to conduct the course at their respective institutions. It is an autonomous value-added course independent of the student-teacher ratio and may be delivered by guest faculty from HEIs and Industry.
5	To give details regarding duration of the Course and is it possible to compress the course?
	• Duration: 30 Hours • This is the minimum duration required and not recommended for further compression.
6	The intake capacity of each course and number of admissions given in the current academic year 2022-23?
	Batch size should be ideally restricted to maximum 45 to increase the effectiveness of the course. The course is proposed to be introduced from academic year 2022-23
7	Opportunities of employability / employment available after undertaking these courses.
	Completion of this course will open many job opportunities for students in the patent and IPR cell of industry. This course will help the students to get insights into patent search, various types of IPR and basics of patent filing.

Signature –

Dr. Supriya Shidhaye,

Chairman, Ad-hoc Board of Studies in Pharmacy

Under the faculty of Science and Technology