



SHARDA SCHOOL OF BASIC SCIENCES & RESEARCH

Department of Chemistry and Biochemistry



COURSE

Intellectual Property Rights and Entrepreneurship (VAS307)

> VALUE ADDED COURSE BROCHURE 2024-25

SHARDA UNIVERSITY

Sharda University envisions to serve the society by being a global University of higher learning in pursuit of academic excellence, innovation and nurturing entrepreneurship. It has 13,000+ students from 95+ countries, 29 states, and Union Territories, providing cultural diversity and global exposure to students. It has 26000+ alumni who are today leaders in their realms. Sharda University is NAAC A+ University with Overall NIRF Rank of 87. Teaching Learning Center at Sharda University is to equip the faculty members with the expertise, skills and knowledge they need for capacity building of students. Teaching as a profession requires highly specialized skills and knowledge to impact significantly on student learning and therefore teachers must refine their conceptual and pedagogical skills.

ABOUT THE SCHOOL

Sharda School of Basic Sciences and Research (SSBSR) boasts of providing an interdisciplinary approach, exposure to different disciplines in science including Chemistry, Bio-Chemistry, Physics, Mathematics, Life Sciences, and Environmental Sciences. The Sharda School of Basic Sciences and Research is unique from other institutions of higher learning as it is committed to imparting knowledge in pure and applied sciences, which not only forms the foundation for further academic pursuits in science and technology but also acts as the foundation for students to pursue a career in multi facet directions. The academic programs are designed to meet the requirement of the latest technological developments and envisages to become a state-of-the-art department that cater the students at Graduate, Post- Graduate and Research level along with providing high- quality education and cutting-edge interdisciplinary research in sciences. SSBSR has well-equipped laboratories for Physics, MATLAB, Microbiology, Molecular Biology, Cell Culture, Virology, Biochemistry, Physical, Organic and Inorganic chemistry for Graduate and Post-Graduate Programs. In addition, there are Central Instrumentation Facility (CIF) and other advance research labs to promote research culture.

DEPARTMENT OF CHEMISTRY & BIOCHEMISTRY

The Department of Chemistry & Biochemistry endeavors to be nationally recognized model for nurturing students who can contribute to the ever changing technology of 21st century. The Department is committed to provide an excellent teaching & learning atmosphere for Undergraduate as well as post graduate students.

RESOURCE PERSON

Prof. Avinash Kant Prof. Avinash Kumar is currently holding the position of Professor & Head, IPR Cell in Sharda University, Greater Noida. Prof. Avinash Kumar superannuated from the position of Associate Director (IPR), Sc 'G', Directorate of ER&IPR, Defence Research & Development Organisation, New Delhi on 31 December, 2019 after putting in almost 21 years of service at DRDO HQ in different capacities and playing major role in evolution of IPR culture in DRDO. At DRDO HQ, he was involved in handling entire range of IPR related issues of DRDO having 50 laboratories with almost 7000 scientists engaged in R&D work pertaining to frontiers of technologies. He has earlier worked as Examiner of Patents & Designs at Patent Office Delhi, as Asstt. Engineer at HAL, Korwa Division and as Scientist in a DRDO lab at IRDE, Dehradun.

He is M.Sc in Physics from BHU, Varanasi & M.Tech in Applied Optics from IIT, Delhi. He has a vast experience of about 25 years in the area of IPR having solid understanding of national/international innovation systems as well as legal and practical intricacies of intellectual property rights and technology transfer. He is a frequent speaker at different IPR seminar/workshops organised by various Universities and R&D Organisations. He is a welltravelled person across various countries and having expertise in the area of patent laws, IPR issues in collaborative R&D, crafting patent specifications etc. He has served as Member of CII National Committee on IP as well as an Expert for Technology Development Fund Scheme of DRDO. Currently, he is Member PFC-TIFAC Committee on IP Filing and Member, Advisory Committee on IPR for DST-Centre for Policy Research, Chandigarh, Member, Aerospace Resources Panel (ARP) of Aero R&D Board of DRDO.

	Schedule		
Week 1	15 July - 21 July	2 lectures	
Week 2	22 July - 28 July	2 lectures	
Week 3	29 July - 04 August	2 lectures	
Week 4	05 August - 11 August	2 lectures	
Week 5	12 August - 18 August	2 lectures	
Week 6	19 August - 25 August	2 lectures	
Week 7	26 August - 01 September	2 lectures	
Week 8	02 September - 08 September	2 lectures	
Week 9	09 September - 15 September	2 lectures	
Week 10	16 September - 22 September	2 lectures	
Week 11	30 September - 06 October	2 lectures	
Week 12	07 October - 13 October	2 lectures	
Week 13	14 October - 20 October	2 lectures	
Week 14	21 October - 27 October	2 lectures	
Week 15	28 October - 03 November	2 lectures	
Week 16	04 November - 10 November	2 lectures	
Week 17	11 November - 17 November	2 lectures	
Week 18	18 November - 24 November	2 lectures	

MODULE

School: SSBSR		Batch : 2023-25	JOLL		
	of Science(DC)		Voor 2024 25		
Program: Master of Science(PG)		Current Academic			
Branch: Chemistry	y/Biochemistry VAS307	Term : Odd(2401),	Semester : 111		
1. Course Code	VA5507				
2. Course Title	Intellectual Property Rights and Entrepreneurship				
3. Credits	0				
4. LTPC	2-0-0-0				
5. Course Type	Value added course				
6. Course Objective	 This course will make students employable in the IPR associated Consultants and companies, and startups for jobs associated with IPR Student will have the knowledge of: 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 draftin and searching. To disseminate knowledge on copyrights and its related rights and registration aspects. To disseminate knowledge on Design, Geographical Indication (GI), Plant Variety and Layout Design Protectio and their registration aspects. To aware about current trends in IPR and Govt. steps in fostering IPR. 				
7. Course Outcomes	CO3: The student wil CO4: The student wil Patent search for CO5: The student will CO6:The student wil Government Jobs	be able to gain adequa l be able to have sound l be able to provide us further developing trader be able pick up the basic: l be able to catch up In s - Patent Examiner, Priv	to understand about IPR and it's ate knowledge on patent for their innovative reseat knowledge about copyright for their pioneering reseat seful insights on the novelty of their idea from a marks for products/innovations. s of Entrepreneurship Development. tellectual Property(IP) as a career option such as-R vate Jobs in Pharmaceutical sector related to patent and Trademark agent, Entrepreneur.	arch works. state-of-the-ar &D IP Counse	
8. Course Description	designs. It will demon the Pharmaceutical /	strate in depth understa Life science industries. It	ng of Intellectual Properties, Patents, Trademarks, nding concepts of IPR and its importance, relevance a will also demonstrate knowledge about the use of sui stically sound data from IPR.	nd execution i	
9. Outline syllabus				CO Mapping	
Unit 1		e need for intellectual p			
А	Types of Intellectual Property Rights: Patent, Copyright, Trade Mark, Design, Geographical Indication, Plant Varieties and Layout Design		CO1/CO6		
В	Trade Secrets IPR in Ir	PR in India : Genesis and development IPR in abroad		CO1/CO6	
C	The WIPO Convention,	, 1967, The Patent Co-ope	eration Treaty, 1970, The TRIPS Agreement, 1994	CO1/CO6	
Unit 2	Patents				
A			e, Rights and Duties of Patentee, Assignment & license	CO2/CO6	
B C	Patent Infringement, Patent/Prior art search		atent Office and Appellate Board.	CO2/CO6 CO2/CO6	
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Unit 3 A			nt: original literary, dramatic, musical, artistic works;	CO3/CO6	
В	Registration Procedure	cinematograph films and sound recordings Registration Procedure, Term of protection, Ownership of copyright, Assignment and		CO3/CO6	
	license of copyright			CO2 / CO :	
C		t, Remedies & Penalties		CO3/CO6	
Unit 4	Trademarks & Design		rke (brand names large sizestures worked)	CO4/CO4	
А	Concept of Trademarks - Different kinds of marks (brand names, logos, signatures, symbols, certification marks and service marks)				
В		marks Registration of Tra	ademarks	CO4/CO6	
C	_			CO4/CO6	
Unit 5	Entrepreneurship				
А	Selection of a product	t, line design and develo	pment processes	CO5/CO6	
В		al and energy requirement		CO5/CO6	
С	Stock the product and	d release the same for ma	aking	CO5/CO6	