

### B. M. S COLLEGE OF ENGINEERING

(Autonomous under VTU) **Department of Biotechnology** 

### **Department of Medical Electronics Engineering**

## Report on course on Intellectual Property Rights conducted in collaboration with BMSCE –KSCST IP cell.

A course on Intellectual property rights was conducted for 14 hours (seven sessions) from 21/4/2023 till 21/5/2023. The resource persons were from KSCST IP cell Bangalore. The Sessions were attended by around 60 students from B.E Biotechnology and MTech. Medical Electronics Engineering. The details of the sessions are given below.

### IPR (Intellectual Property Rights) Report-Session 1

**Date :21/4/2023** Time: 11.15-1.05P.M Venue: BT classroom 4

Speaker: Mr. Nagarjun M G, Project Associate, KSCST

**Session 1: Fundamentals of IP** 

The session started with introduction to Intellectual Property Rights, where students were asked to mention words that come to their minds about IPR. Some as mentioned by the students were: Something we have rights over, copyright for some kind of creation, plagiarism, trademarks, patents etc. If its Biotechnology domain, the copyright would come in for Research papers. The speaker elaborated on the Types of intellectual property giving examples in each case and explained about territorial jurisdictions and the different patent offices where IP can be filed in India. The speaker explained the norms related to each type of IP and the criteria with examples.

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### IPR(Intellectual Property Rights) Report-Session 2

**Date :28/4/2023** Time: 11.15-1.05P.M Venue: BT classroom 4

Speaker: Mr. Nagarjun M G, Project Associate, KSCST

**Session 2: Introduction to IPR-Continued** 

The session started with in depth understanding of Intellectual Property Rights with respect to various types like Trademarks, Geographical Implications, Copyrights, Patents, Trade secret, Industrial Design (duration 10 years), Protection of Plant Variety and farmers Rights. The speaker then explained the basic difference where Property is Tangible and how Tangible can be further classified into movable and Immovable. Intangible canbe classified into lease Security, Emotional Goodwill and Intellectual. An Intellectual property cannot be touched or felt and is of a Form which is protectable. e.g. Patents. The session continued by familiarizing the students with various treaties and reciprocal agreements like Paris Convention, World Convention, WTO and TRIPS. There was a reasoning given for the basis for IP protection and who owns the patent. The session ended by explaining what can be patentable and what are the specific exclusions with respect to patent. All the students enjoyed the session and gave positive remarks on the session. There were total of 57 students from Department of Biotechnology and Medical Electronics Engineering , B.M.S.C.E Bangalore who participated in the session .



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### IPR (Intellectual Property Rights) Report-Session 3

**Date :29/4/2023**Time: 8.55-10.45 a.m
Venue: BT classroom 4

Speaker: Ms. Priyanka ,Project Associate, KSCST Session 3: Scope of Patentability under the Patent Act

The speaker started the session by introducing the students on Indian Patent Act sec 2(1)(I) and invention. She emphasised that Patent laws are not uniform. If you need to get a patent, you need to know the legalities.' New 'invention shouldn't be there in prior art e.g. If making a wheel, even care painting of the wheel can be prior art. Few examples were given with respect to certain disciplines like; in Bioinfomatics discipline, the information obtained through Blast can't be patented. New form of known substance is not patentable if it does not increase the efficacy of old substance. If enhanced efficacy is proved it is patentable. Few more examples were given to students for better understanding of innovations that can/cannot be patentable. No patents on methods of horticulture or Agriculture, patents can be considered for devices.E.g. cultivation of Algae. Medicinal, Therapeutic processes for humans, animals etc. cannot be patented. A disease is not Patentable. It could be coupled with a device and made patentable.E.g. Cancer cells -No but a laser knife to remove cancer cells -Yes. Mathematical, business method etc. cannot be patented. E.g. If you have an app you can put that in a device and patent that device. Presentation of information can be subjected to copyright but not patent.E.g. Arranging something in a dictionary. The session ended by concluding that every country has different laws and regulations with respect to patenting. All the students were intrigued with the talk and gave good feedback on the session.

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# BMS COLLEGE OF ENGINEERING, BANGALORE Time : 8.55-1044an DEPARTMENT OF BIOTECHNOLOGY, Venue: BT CR 4.

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### IPR(Intellectual Property Rights) Report-Session 4

Date :5/5 /2023 Time: 11.15-1.05P.M. Venue: BT classroom 4

Speaker: Ms. Priyanka , Project Associate, KSCST

### **Session 4: Patent Filing and its Ratification**

The session started by introducing the students to various stages from patent filing to granting of the patent. The stages comprised of filing of application (proven/complete), filing patent in the country of origin. Publications of applications, Request for Examination, Examination issue of FER and Granting of Patents. The speaker then enlightened the students on the Patent Act 1970 that came into action in the year 1972, which forms the principal law for patenting system in India. The various forms with respect to the filing and the website link were shared with students. The details are as follows.

#### Patent Amendment

Reduction in patent fee cost, not for an individual but for a group up to about 80% as of 2022.

Website: https://ipindia.gov.in/





The speaker mentioned that the forms and fees also contains request of examination. The application filed is examined against prior art. Where one invention is considered per application: Application fee for up to one priority, up to 30 pages and 10 claims to be included. For every page above 30 there is a cost associated with it .18 months after first filing the patent is published. The speaker then ended the session by explaining the issues of FER, regulations with respect to pre-grant and regulation fees. Gallery





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### IPR(Intellectual Property Rights) Report-Session 5

**Date :12 /5 /2023** Time: 11.15-1.05P.M Venue: BT classroom 4

Speaker: Ms. Priyanka ,Project Associate, KSCST Session 5: Patents and its ratifications, types of claims

The session started with explanation on prior art and the ways to overcome it. For example, if use of coal and liquid gas is considered as an invention - Find out what is the difference in invention. The speaker mentioned that the claims can be of 2 types. Independent claim where the Patent application may have more than 1 independent claim and Depended claim- fall all back during examination. The speaker elaborated further on the differentiation of both claims and moved on to parts of claim. There are 3 parts in every claim

Preamble - describes area of technology of the claim. It is a short introductory statement.

Transition-connecting the preamble to the body.

A body

She then depicted the punctuations to be considered for claims; - A comma separates the Preamble from Transition. - A colon Transition from Body. The small paragraphs that define and describe the logical elements are separated by a semi-colon. The speaker emphasized on the various errors that could be done while drafting a claim. Few of the samples were given for better understanding of the concept.

No trademark in a claim.

Only to connect all elements of the claim we can use functional language.

Too specific clams or narrow may not be valuable.

Too General or Broad may not be patentable.

The session was very interesting for the all the students and they gave a positive feedback

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### IPR(Intellectual Property Rights) Report--Session 6

**Date :13 /5/2023**Time: 8.55-10.45 a.m
Venue: BT classroom 3

Speaker: Ms. Ekta Prasad ,Patent Agent Bangalore

**Session 6 - IPR in BT :-Patent strategy** 

The speaker started the session by describing how strategy is taken to protect one's creation. To overcome prior art one has to overcome all claims of prior art and give an outcome. There are two kinds; Offensive strategy: To claim using a single claim and Defensive strategy- to Claim is done in many sequential claims. She then moved on by giving examples for better understanding on patent strategy. The example stated- If our interest lies in Vietnam our first filing must be done in India as it is the country of origin then in Vietnam. In this case someone from Burma can use it but it is not patentable again. A Fee can be paid to maintain the patent but if the patent does not have enough return, then it can be stopped. Additionally, an Invention has 2 parts, the claimed part and the unclaimed part. The unclaimed part is the left part and a missed opportunity to claim and hence it is not protected by the patent office. If the part of the claim lies in prior art, then there is an objection from the patent office. The speaker then enlightened on prior art, where she explained how prior aer is subjective, anything available to the examiner is prior art. E.g There can be two compounds to prevent cancer, one has OH and the other OCH2 as functional groups. The second one demonstrated a better efficacy but the first is

prior art. There was an argument that the second compound improved lipophilicity which was not done in the prior art. The speaker mentioned that there is always a designing with respect to prior art. The session was then ended by concluding on how patents can be granted with respect to the strategy designed. All the students were very happy with the session.







### IPR Certification bourse BMS COLLEGE OF ENGINEERING, BANGALORE 9-10.43 a m DEPARTMENT OF BIOTECHNOLOGY Venue: 87 CR 3

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### IPR(Intellectual Property Rights) Report--Session 7

**Date :21 /5/2023** Time: 8.55-10.45 a.m

Venue: online

Speaker: Ms. Ekta Prasad ,Patent Agent Bangalore

Session 7 - IPR in BT

The speaker talked about the different laws related to IPR .She emphasized on the patent law as applicable to Biotechnology , like transgenic animals with case studies.

