

Annexure_3.1.1

Criterion III – Research, Innovations and Extension

Key Indicator - 3.1 Promotions of Research and Facilities

Metric No. 3.1.1_The institution Research facilities are frequently updated and there is well defined policy for promotion of research which is uploaded on the institutional website and implemented

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Research & Development

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1. Introduction

Mody University of Science & Technology (MUST) considers the need to facilitate the research and development activities systematically to lay strong foundation and register growth in research by generation of resources, research collaborations and establishing links with industry.

University Research Committee (URC) will deal with all the R&D related activities.

2. Role and Responsibilities of URC

The rules and regulations shall be called as URC RULES hereafter and shall be applicable to all activities stated therein. The proposals submitted by MUST involving the following activities are termed as URC activity: -

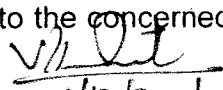
1. Sponsored Research Projects involving external funding sources.
2. International Research Collaborations involving international funding sources.
3. Industry Sponsored Projects, involving funding from industry
4. Organizing Workshops and Courses for dissemination of knowledge as part of the research projects.
5. MoU and Agreement with National/International Institution for Research having self-sufficiency nature.

3. Funded Projects:

3.1 Externally Funded Projects:

Each sponsored project will have a Principal Investigator (PI) who will be responsible for the formulation of the project proposal according to the format prescribed by the concerned funding agency. In case, the Institute is awarded a sponsored project directly, or a proposal is submitted at the Institute level, the Principal Investigator would be identified by the Chairman, URC in consultation with the concerned Dean with due information to the Registrar.

The statement of expenditure and utilization certificate will be prepared at the end of every financial year by the PI and be submitted to the office of Registrar through Chairman, URC. The project file will be closed with the submission of the final technical and financial project report along with the Utilization Certificate to the funding agency and transfer of the non-consumables to the concerned Department/Centre school stock register.


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3.2 MUST Sponsored Projects

Research project submitted is expected to propose new ideas preferably with commercialization potentials for both Mody University and the Collaborator contribute to staff research development, and the advancement of the discipline upon receiving the research grant applications, the URC panel will make recommendation.

Applications submitted must fulfil one of the research categories i.e. Fundamental/Pure Research, Applied Research/ interdisciplinary research or any type of research which has a potential for upscaling and Commercialization.

Intramural projects which has the budgeted value less than Rs. 2 Lakhs such research proposals will be recommended by Dean to URC. The URC will submit the recommendation for final approval to President/Vice-President/Director.

For any applications requesting Intramural research funds of more than Rs. 2 Lakhs upto maximum Rs. 10 Lakhs (with the approval of the Management), the URC will invite one internal subject expert and one external subject expert of the Professor level to evaluate the research project. The URC will submit the recommendation for final approval to President/Vice-President/Director.

3.3 Eligibility

This grant is open to all full-time faculties of Mody University of Science and Technology for intramural project.

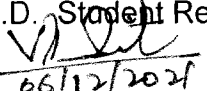
For Extramural collaborative project, PI/ Co-PI may be from collaborative institute along with the PI and Co-PI from the Mody University of Science and Technology.

3.4 Types of Funding and Duration

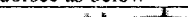
Mody University of Science and Technology research and development funds will be disbursed for the research which will fall into any of the four categories:

- I. Fundamental/ Pure Research
- II. Applied Research
- III. Upscaling and Commercialisation (upon completion of Applied Research project)
- IV. Undergraduate/Postgraduate/Ph.D. Student Research Project

Research categories defined as under:


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I. Fundamental/Pure Research

Pure research is defined as research carried out by a researcher to increase understanding of fundamental principles and academic discoveries. The research carried out will generate new ideas, principles and theories with possibilities that the end results may have no direct or immediate commercial benefits. However, the research serves as a basis to generate commercial products/services.

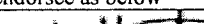
II. Applied Research

Applied research is defined as applying existing knowledge to address a specific problem or to meet a specific need within the scope of the entity. In brief, applied research deals with practical problems and is generally empirical. It concerns research conducted on an existing problem confronting [and the solutions needed by real life corporate companies who are without the capacity or the resources to conduct in-depth research. Such real life research projects require the partnership of academic teams who are equipped with the necessary research attributes to jointly fulfil the needs of the corporate companies. Solutions that prove effective may entail intellectual property (IP) negotiations and ownership discussions between the University and corporate clients.

III. Upscaling and Commercialisation (Upon completion of Applied Research projects) Ideation is the thought processes involved in expressing a new concept and potential ideas which may be converted into value-added end-products, useful in real life applications and sold to the market. Ideation involves the use of imagination to form new ideas and may be used in an organizational context for problem solving or in the conceptual phase of new product development. The Incubation and Innovation Centre fosters creativity and offers support in translating ideas into businesses with the aim of nurturing the entrepreneurship spirit among talented and ambitious students and staff. The Incubation and Innovation Centre setup at Mody University aims to create a platform for young entrepreneurs, both internally and externally, to incubate potential business ideas through an array of business support resources and services, which are developed and managed by the centre. The Incubation and Innovation Centre's activities revolve around developing new ways of cultivating potential entrepreneurs through incubation and seed-funding of innovative start-ups, research on industry trends and best practices, and forging linkages with partners, to support the above activities.


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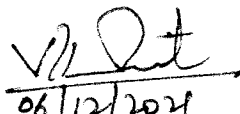
IV. Undergraduate/Postgraduate/Ph.D. Student Research Project

Student Research Project Grant is to encourage potential final year student projects (Undergraduate/Postgraduate) or Ph.D. students to apply for mini grant with expected outcomes of publication or participating in competition (Ideation). The grant must be used only for development of the prototype or to purchase consumable to carry out the research project. Outcome of the grant must be at least **One publication (Scopus/WOS) or prototype developed**. Supervisor must be the Principal Investigator and student as co-researcher during the application submission. Each project should not exceed Rs. 50,000/- (value may change on a case to case basis) subject to approval from Management. A supervisor can supervise up to 5 students/ groups under this grant category. All submission will obtain final approval from President/Vice-President/Director. Monitoring, Disbursement of Grant and Project Closure follow the URC protocol and procedure.

The Table below shows the guidelines and time frame of project completion and funds allocated for each category:

Intramural Research Projects	Expected Project Completion	Indicative Fund Allocation
Undergraduate/Postgraduate Student Research Project	6 months	50,000*
Faculty Projects	1 year	2,00,000.00 *
	2 years	5,00,000.00*
	2- 3 years	5,00,000.00* to 10,00,000.00

* Subject to approval from Management


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3.5 Disbursement of Funds:

- The Intramural grant will be disbursed as per the approval of the Management.
- The Extramural grant will be disbursed as per the guidelines of the funding agency.

3.6 Progress Report

The lead researcher is required to submit project reports every six months upon project initiation.

3.7. Request for Project Extension

For Intramural projects, the lead researcher may submit requests for extensions of project duration (6 months -1 year) depending upon the nature of work during the project duration through concerned Dean & Chairman-URC, for approval by the President/Vice-President/Director.

For Extramural projects the PI/ Co-PI will submit the request to the external funding agency as per their guidelines.

3.8. Completion of Project

- Upon completion of the Intramural project, the lead researcher is required to submit the Final Progress Report to URC and SE/ UC (Statement of Expenditure/ Utilization Certificate) to Finance department for the final settlement.
- URC Office will issue an acknowledgement letter to verify the completion of the research project.
- For Extramural funding the same process need to be followed as per the guidelines of the external funding agency.

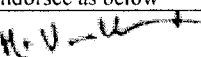
4. Rules and Regulations for Funds

4.1 Budget Heads:

There will be a separate bank account for research and Innovation at University level for both Extramural/ Intramural funding. All funds received for extramural funding will be


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deposited in this account. Besides the funds for ongoing projects, this account will be used to maintain a number of funds of the Institute as described below:

4.1.1. University Intramural Fund (Seed Money) :

For Intramural project includes the following heads:

- Purchase of consumables for professional work
- Purchase of equipment (applicable only for projects value more than 5 lakhs)
- travel for professional work
- Contingency
- any other special expenses permitted by President/Director, MUST.

Institute Overhead distribution UDF & PDF & IPRFF	Sponsored Research Projects
MUST Lakshmangarh	UDF65% PDF30% IPRFF5%

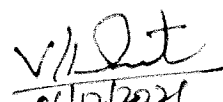
For Extramural funding the PI/ Co-PI has to follow the guidelines as per the external funding agency.

4.1.2 Institute Overhead Charges:

For sponsored Research Projects, the Institute will forward proposals with overheads 10% of the total project amount.

The overhead for sponsored research projects will be distributed as follows:

- 65% of the amount to the University Development fund(UDF)
- 30% to the Professional Development Fund (PDF) of the PI (in case there are Co-PI, this amount will be distributed proportionately to the PDFs of the investigators involved.)
- 5% to the Intellectual Property Rights Facilitating Fund (IPRFF).


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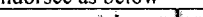
4.1.3 Actual Expenses for Extramural and Intramural projects

The Actual Expenses will cover the following costs related to a project:

- Permanent equipment to be procured
- Consumable Materials to be used.
- Computational charges (at commercial rates)/Software purchase & AMC.

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4. Charges to be paid for the use of specific equipment in the departments or central facilities.

5. Contingency Expenses

These will cover:

- i) Cost of supplies, stationery, and reproduction.
- ii) Cost of books, journals, membership fees of professional societies.
- iii) Payment for typing and other office work to external agencies.
- iv) Postage and telephone (including phone deposit charges, rentals and call charges of phones at the office or residences).
- v) Entertainment expenses (this is to cover costs incurred in meeting clients in the Institute or during a tour).
- vi) Conference Registration fees
- vii) Payments for hiring services in short-term contract, and
- viii) Miscellaneous expenses.

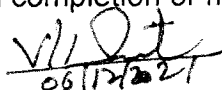
6. Traveling expenses

Travel may be undertaken for site visits, meetings outside the Institute, participation in Conferences /Workshops/ Seminars in India and abroad. Approval of expenditure will be at the discretion of the Chairman, URC based on the nature, funding of project work and cost of project.

7. Salaries of project employees.

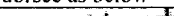
4.2. Hiring Norms for Research Staff for Extramural funding

- a) Open selection will be held for all project posts for a duration of more than one year. There will be an internal circular within the Institute. If suitable candidates are not available, then open selection will be made. In special situations, on the recommendation of the Principal Consultant / Investigator, short term job contracts for up to 6 months may be given with the approval of Chairman, URC with the intimation to the office of Registrar.
- b) All project appointments will be contractual and on, the basis of consolidated monthly compensation.
- c) Automatic transfer from one project to another either on completion or midway shall not be permitted.
- d) The tenure of contractual appointment of a project staff will be for the duration of the


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project or three years whichever is less.

e) The total period of contractual employment with the R&D project in two or more projects in no case shall exceed five years.

f) On the completion of each year of service during the contract period suitable enhancement of monthly compensation may be considered on the recommendations of the PI with the approval of President/Director.

g) A project employee shall execute a contract agreement on non-judicial stamp paper of value Rs 100/- with the Registrar at the time of joining, with the explicit provision that contract may be terminated by either side (staff or the Registrar office) by giving one month's notice or one month's consolidated compensation in lieu of the notice.

h) Selection of JRF / SRF / RA shall normally be made as per the guidelines provided by the sponsoring agency, and as per Institute requirements, and with the approval of the President/Director.

i) All appointment letters shall be issued under signature of the Registrar on recommendation of Chairman-URC and approval of the President/Vice-President/Director.

j) The Principal Investigator shall consider prevailing compensation packages, general qualifications and experience of staff while preparing project proposals.

k) The Selection Committee for the recruitment of Project staff for each project will be constituted by the President/Director as follows:

- Chairman, URC or his nominee: Chairman
- Principal Investigator(PI): Member
- An expert (to be recommended by the PI) : Member
- Expert from the concerned department: Member

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l) The Chairman, URC shall have the power to fix, on the recommendations of the selection committee, the monthly consolidated compensation and the duration of the contractual appointment under intimation and due approval of the President/Director through the office of Registrar.

m) On the completion of each year of service during the contract period suitable enhancement of monthly compensation may be considered by the Chairman, URC with due approval of President/Director through the office of Registrar on the

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recommendations of the PI of the concerned project.

n) All project staff shall work for the project in which he/she is employed, only, unless requested otherwise by the PI concerned, and agreed to by the President/Director. The PI shall be the sanctioning and controlling authority for all types of leave with respect to contractual project staff.

o) In case of recruitment of JRF/ SRF candidates who have been declared "successful at NET/ GATE may be preferred. In exceptional cases, candidates without NET/ GATE may be recruited through a proper selection procedure. It is desirable to have Nominee of funding agency in the selection process and such requests for nominees may be sent well in advance.

p) The hiring of project staff should follow the number of personnel, in different 'categories, sanctioned under the project. The category of post, and its emoluments are governed by sponsoring agency orders.

q) Scale and emoluments for the posts not covered under the sponsoring agency order are governed by norms prevalent in the implementing Institution. In exceptional' situations, on recommendation of PI short term job contracts for 89 days and in very special situation upto 6 months may be considered by the President/Director, MUST.

4.3 Conduct Rule:

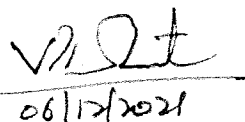
Project employee shall follow general code of conduct as approved by the President/Director. They have to maintain secrecy of the research findings / technical information and shall not; get involved in unauthorized communication of any official document or information. The President/Director may, at his discretion, constitute committee(s) to conduct disciplinary proceedings, if necessary against project employees. On the basis of the report, suitable disciplinary action may be initiated and punishment will be imposed by the President/Director.

4.4 Guidelines for Project Investigators

4.4.1 Leave Provision:

As per the guidelines of MUST.

4.4.2 Limitations


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Approval for going on duty on such work will be approved by the concerned Dean.

4.4.3 Involving Foreign Collaborators:

At least one foreign institution/investigator from the other country should express a desire to cooperate in the research and development project with MUST and a sponsoring agency should ready to support financially for international R&D projects.

The project may involve a company from each side for academic / industrial research project for joint industrial R&D project aiming at the development of products/ processes leading to commercialization.

The proposals involving foreign collaborators must have funding support given to each partner in accordance with the National Laws, Rules, Regulations and procedures in effect.

A bilateral Memorandum of Understanding (MoU) between MUST Lakshmangarh and the collaborating foreign institution need to agree on the Indian component of the total project cost with the approval of President/Director, MUST.

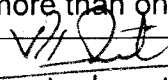
4.4.4 Publications of results

Investigators wishing to publish technical/ scientific papers based on the research work done under the project, should adhere to the guidelines of sponsoring agency and acknowledge the assistance received from sponsoring agency in the publications.

If the results of research are to be legally protected, the results should not be published without action being taken to secure legal protection for the research results.

5. Publication Allowances:

- Publication of authored Books - cash award upto a maximum Rs. 5,000/- *
- Publication of Edited Books/ book chapters - cash award upto a maximum Rs. 3,000/-* and Rs. 2,000/-* respectively.
- Publication/ award of Patents - Cash award upto maximum Rs. 6,000/-*
- Publication of research paper in International Journal of Repute with impact factor (IF of web of science/ Scopus/ SCI) more than one - Cash award upto a maximum


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Rs. 3000/-* and more than three cash award upto a maximum Rs. 5,000/-.*

- Copyright/ Trademark/ Geographical Indication- Cash award upto a maximum Rs. 2,000/-.*

*Subject to approval from Management

6. Conference Allowances

- Presenting paper in International Conference within India- Refund of registration fees, travel expenses as per status*
- Presenting paper in International Conference outside the country – Registration fees, Part of travel expenses in economy class air travel, local stay for maximum 3 days. *
- Presenting paper in national conference of Repute –Registration fees travel expenses and stay of maximum 2 days for paper presented in conference/seminar/workshop organized by IIT's, NIT's and institute of national repute, totaling not more than Rs. 3,000/-. A prior permission must be obtained before paper sent, Subject to approval from Management. *
- Organizing and conducting a Faculty Development workshop/seminar with A grade industry experts with satisfaction level of participants over 80% with minimum 50 registrations - cash award upto maximum Rs. 2000/-.*

*Subject to approval from Management.

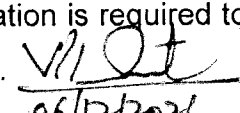
6.1. Notification of Approval

An official email will be sent to notify the staff, with due copies sent to the Registrar Office and Finance Office to formalize and substantiate the outcome of the funding applications. A Conference Code will be provided to be used as a reference point for claims upon returning from the conference.

6.2. Publication Recommendations

Staff awarded for International Conferences application is required to submit the paper to a refereed journal within two years of approval date.

7. Payments of JRF / SRF


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7.1 The assistance to JRF:

1. Junior/ Senior Research Fellowship are applicable to the regular PhD students only.
2. Junior/ Senior Research Fellowship are (JRF): Rs. 8,000 p.m. (for 10 months only in a academic year) for the initial two years.
3. Junior/ Senior Research Fellowship will be start only after successful of course work and after synopsis approval.
4. To avail JRF, a PhD student must passed PG with $\geq 75\%$ with one publication at PG dissertation level is desirable.
5. If the Ph.D student does not completes the Ph.D in three years, later the payment of fee will be charged semester wise.
6. If the Ph.D student does not complete the Ph.D in three years, he / she will continue with her Ph.D without further research fellowship.

7.2 Payment to JRF/SRF of Government funded projects:

The JRF/SRF of Government funded projects will get the fellowship as per the rule and regulation of external funding agency.

8. Research Grant Award for Extramural funding

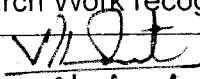
- The Award is for any research grant obtained from outside sources and not those from Mody University.
- The value of the Award is in the form of increment as follows:

S.No	Value (in Rs.)	No. of increment (annual)
1.	1 lakh-10 lakhs	1*
2.	10.1 lakhs-20 lakhs	2*
3.	More than 20.1 lakhs	3*

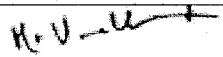
* Subject to approval from Management.

This applies only to the value of the grant apportioned to Mody University of Science and Technology. The co-researcher not from Mody University is not eligible.

- Innovation and Research Work recognized at either national level or


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Name	F President	MANNUAL OF RULES & PRACTICES	Revision :- 02
Date	28-11-2019		28-11-2019

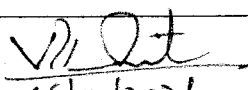
university level (genuine with research content and useful to society)

National level - Cash award upto maximum Rs. 10,000/-

University level - Cash award upto maximum Rs 5,000/-

For all the above said criteria Faculty may submit their application for above award with supporting evidences which will be scrutinized by a panel appointed by Director /President. For incentive of Rs. 10,000/- & above faculty is required to give undertaking to continue in the university after receipt of incentive for minimum one year, Subject to approval from Management. Above award list will be made by the panel appointed by the Director /President every academic year.

CC: Chairman-MC; Director, Dean-Administration, Registrar, All Deans, Principals; COE, D.G.M.- Admissions, G.M.-Fin., E.A. to Kolkata


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MODY UNIVERSITY OF SCIENCE AND TECHNOLOGY

Minutes of the Meeting of the Board of Management of Mody University of Science and Technology held on Wednesday, 04th December, 2019 at 10:30 A.M. at the Conference Room, Guru Vashishtha Bhawan, Mody University of Science and Technology, Lakshmangarh, Sikar, Rajasthan.

The following members were present:

- | | | |
|-----------------------|---|------------------------------|
| 1. Shri R.P. Mody | - | Chairman |
| 2. Shri R.A. Mody | - | Member |
| 3. Shri S.S. Bhuwania | - | Member |
| 4. Dr. R.K. Sureka | - | Member |
| 5. Dr. Vinod Purohit | - | Registrar - Member Secretary |

Shri R.P. Mody, Chairman took the chair.

Leave of absence was granted to Dr. Chandra Shekhar, Dr. Raja Reddy and the Commissioner, Directorate of College Education / Nominee, Government of Rajasthan, Jaipur.

01. The minutes of the previous Meeting were read and confirmed.

Annexure A

02. The minutes of the 25th Meeting of the Finance Committee was then placed before the Board for its consideration and approval. The Board discussed and approved the same unanimously.

Annexure B

03. The Board took note about the development on the Academic Front and also the working in relation to upkeep and maintenance of the University Campus.

04. The Board then considered and approved the revision of Manual of Rules and Practices (MORPs) as under:

<u>Titles</u>	<u>No.</u>	<u>Dated</u>	<u>Revision</u>
International Programmes	MORP-I-1.3	24.09.2019	Rev.-00
PURCHASE PROCEDURE	MORP-P-1	16.11.2019	Rev.-03
RESEARCH & DEVELOPMENT	MORP-R-3	28-11-2019	Rev.-02

Annexure C

05. The Board considered the proposal to promote Dr. V.K. Jain, as Dean-Academics, accepted and approved the same.

CHAIRMAN'S
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Intellectual Property Rights (IPR) Policy

This MORP has been prepared to laid down the policy of IPR to fulfill the commitment of the University to promote academic freedom, provide a conducive environment and financial support for research and development. Intellectual Property plays an important role in providing a competitive edge to an organization. IP is protected in law by, for example Patents, Copyright, innovation products, inventions.

1. Introduction

Intellectual Property Rights (IPRs) are a set of exclusive rights protected by law which are accorded to creators or persons over their creations for a certain time of period.

IPRs are considered as a barometer of R&D activities and a mode of technology transfer. An IP right holder can realize value from its intellectual assets through utilizing it internally for its own processes or share it externally through provision of goods and services to customers. The latter can be achieved through legal mechanisms such as licensing or assignment.

In today's globally competitive environment, IP has placed itself on a pedestal in the context of economic growth and is becoming increasingly important. Intellectual Property (IP) is the fuel that powers the engine of prosperity, fostering invention and innovation. The increasing significance of intangible assets in the global economy is forcing business Organization (s)s to actively manage their IP as a key driver for building and sustaining their competitive advantage and achieving superior performance.

IPRs are now being used not only as a tool to protect creativity and generate revenue but also to build strategic alliances for socio-economic and technological growth. The Rajasthan State needs to maximize the benefits from their intellectual property by stimulating higher levels of innovation through a judicious system of rewards, ensuring timely and effective legal protection for IPRs and leveraging strategic alliances for enhancing the value of the intellectual property created in the State.

For last several years, it has been observed that filing of IP applications in the country are not increasing at desirable rate despite significant contribution towards R&D by various University teachers, students, scientists of R&D Organization (s)s, etc. Lack of awareness on part of IP

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creators and also a formal IPR policy could a possible reasons for this phenomenon. It is, therefore, imperative on the part of Universities, R&D Organization (s)s, Industries etc. to create awareness among their IP creators and formulate a proper IPR policy. This document is step towards achieving the above objectives.

2. Types, Definitions and Governance of IPR

2.1 Types:

IPR mainly covers the following

1. Copyright
2. Patents
3. Trademark
4. Industrial Design
5. Geographical Indications

2.1 Copyright:

"Copyright is a right given by the law to creators of literary, dramatic, musical and artistic works and producers of cinematograph films and sound recordings. It is a bundle of rights including rights of reproduction, communication to the public, adaptation and translation of the work". The exclusive and assignable legal right, given to the originator for a fixed number of years, to print, publish, perform, film, or record literary, artistic, or musical material. (Indian Copyright Act 1957).

The Copyright is governed by THE COPYRIGHT (AMENDMENT) ACT, 2012 No. 27 OF 2012, an amendment of the original Copyright act of 1957.

2.2 Patents (for inventions):-"Patent is an exclusive right granted by the Government to the applicant for his disclosed invention of product or process which should be new, non-obvious, useful and patentable for certain amount of time".

The Patent system in India is governed by the Patents Act, 1970 (No 39 of 1970) & The Patents Rules 1972, effective from April 20, 1972. Subsequently The Patents Act, 1970 is amended effective from January 1, 1995 and The Patents Rules, 1972 are amended effective from June 2, 1999.

V. H. D.
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2.3 Trade Marks: "Trademark is a visual symbol in the form of word, name, logo, label etc. as applied to an vendible article, with a view to indicate origin of manufacture or service or vendor in that respect and enable customers to distinguish the product of one manufacturer from the goods of the other".

Trade Marks are governed by Trade Marks Act, 1999 (Act No. 47 of 1999)

2.4 Designs:- Design "means only the features of shape, configuration, pattern, ornament or composition of lines or colours applied to any article whether in two dimensional or three dimensional or in both forms, by any industrial process or means, whether manual, mechanical or chemical, separate or combined, which in the finished article appeal to and are judged solely by the eye; but does not include any mode or principle of construction or anything which is in substance a mere mechanical device, and does not include any trade mark as defined in clause (v) of sub-section (1) of section 2 of the Trade and Merchandise Marks Act, 1958 or property mark as defined in section 479 of the Indian Penal Code or any artistic work as defined in clause (c) of section 2 of the Copyright Act, 1957." – THE DESIGN ACT, 2000

Design rights are governed under the THE DESIGNS ACT, 2000 and the rules made there under from time to time.

2.5 Geographical Indications: "geographical indication", in relation to goods, means an indication which identifies such goods as agricultural goods, natural goods or manufactured goods as originating, or manufactured in the territory of a country, or a region or locality in that territory, where a given quality, reputation or other characteristic of such goods is essentially attributable to its geographical origin and in case where such goods are manufactured goods one of the activities of either the production or of processing or preparation of the goods concerned takes place in such territory, region or locality, as the case may be..- THE GI ACT, 1999

GIs are governed by The Geographical Indications of Goods (Registration and Protection) Act, 1999 (GI Act) and the rules made there under.

3. The Mody University of Science and Technology and its Intellectual Property

MUST is a research oriented University comprising a unique platform for interdisciplinary research.

Our vision is to build an international research reputation by enhancing scientific knowledge

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through research applied to scientific and societal challenges. Our main challenge is to build on the University's extensive data, information, and service to support science, policy development, decision-making and the translation of research into practice.

3.1 Importance of IP to Mody University of Science and Technology

Most of the research ends in 'thesis' or in 'journal articles'. There is a dire need to stimulate researchers to think beyond publications and think about the applications of their research in larger societal interest. IP protection and licensing is the key to successful application of research in larger societal interest. Inherent in these responsibilities is the need to encourage the production of creative and scholarly works for the development of new and useful materials, products, devices, processes and other types of intellectual property, some of which with potential commercial value. These activities contribute to the professional development of the individuals involved, enhance the reputation of the University, provide additional educational opportunities and promote public welfare. The University encourages bringing new knowledge into use for public domain. Such knowledge or technology often has commercial value and should be treated as a financial asset to be used, conserved and applied in such a way as to generate an appropriate financial return. The transfer of such information or technology through licensing satisfies both the above objectives, i.e., dissemination for use and realization of financial returns.

Intellectual property plays an important role in providing a competitive edge to an Organization (s). The intangible assets of an Organization (s) - such as know-how, inventions, brands, designs and other creative and innovative products - are today, often more valuable than its physical assets. Over the last decade, appreciation of the commercial value of intellectual property has grown both within the academic community and in the society at large. Concerns related to confidentiality, publication, and ownership of intellectual property are now commonplace. The pace of development of the human mind, resulting in new and useful inventions, initiated a need for a central policy in determining the course of the creation, protection and commercialization of intellectual property in the University. The intellectual property rights are now not only being used as a tool to protect the creativity and generate revenue but also to build strategic alliances for the socioeconomic and technological growth. Keeping in view the importance of higher education in spawning societal changes and transforming the economic fortunes of a country by emphasizing innovations, Mody University of Science and Technology has taken several measures for

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promoting innovative research by encouraging inter-disciplinary research through inter-University, intra-University, University-institute and University-Industry (ies) collaborations.

4. Purpose of Formulating Intellectual Property Right (IPR) Policy of Mody University of Science and Technology

MUST has formulated this policy for the management and ethical conduct of IPRs with the objectives to:

To develop conducive environment for generation of IP at MUST;

Improvement and standardization of research to product in order to translate in IPR;

Facilitate, encourage, promote and safeguard scientific investigation and research in Mody University of Science and Technology with the freedom of the faculty, non-faculty, students, inventors and sponsors involved in Research & Development;

Make the inventor(s) of IP aware of the applicable laws and rules for ensuring their compliance;

Establish an IPR management policy and procedural guidelines, making the inventions and discoveries made in the course of research carried out in the Mody University of Science and Technology available to the public;

Promote, facilitate and encourage the inventor(s) who take initiatives to transfer University IP to the public;

Enable the University to make beneficial use of developed IP with the maximum possible benefit of the inventors, the University, and the nation at large.

Safeguard the interest of inventor(s) of IP and provide fair distribution of returns accruing from the commercialization of IP by providing distribution of resulting economic gains among the developers/ authors/ inventors, the University and where applicable, the sponsors.

The IPR Cell as established by Mody University of Science & Technology shall help the inventor in drafting of the patent specification / copyright or trademark application and filling of relevant forms.

5. Stakeholders in Intellectual Property Generated by Researchers at Mody University of Science and Technology

There are several stakeholders in the process of development of innovative research, acquiring patents and commercialization of innovations or inventions. These include:

Mody University of Science and Technology (MUST);

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Researchers and Inventors of Mody University including Collaborators/ Visiting Scientists from other institutes or Industry (ies); Sponsors; Licensee; Government;

Each of these stakeholders contributes in one way or another in the process of generation and commercialization of innovations, inventions and research findings. IPR policy need to protect the interest of all the stakeholders.

MUST is a major stakeholder in patented and/or commercialized innovations, inventions and research findings. It contributes to the following:

the infrastructure for the researcher or inventor to operate in;

the researcher's salary;

the funds for research;

6. Issues Covered by the IPR Policy of Mody University of Science and Technology

In order to harmonize the various conflicting interests of stakeholders and to achieve broad based objectives, the intellectual property right policy of Mody University of Science and Technology addresses following issues:

- 6.1 Scope of IPR Policy
- 6.2 Intellectual Property (IP) Ownership criteria
- 6.3 IPR Policy Administration
- 6.4 Regulation of IPR Policy
- 6.5 Process of Filing the Patentable Invention
- 6.6 Evaluation of the Documents
- 6.7 Commercialization of IP
- 6.8 IP Licensing and Technology Transfer
- 6.9 Revenue Sharing
- 6.10 Infringements, Damages, Liability and Indemnity
- 6.11 Conflict Of Interest
- 6.12 Dispute Resolution
- 6.13 Jurisdiction
- 6.14 Other pertinent issues

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6.1 Scope of IPR Policy

This policy covers all rights arising from any type of the IP which can be secured under any protection mechanism, including patents, copyrights, trademarks, industrial designs, layouts of integrated circuits, devices, including an invention, scientific or technological development, and even computer software, genetically engineered microorganisms and business models and other forms as the need arises created or made by the staff/ students/ researchers in the course of their employment/ enrollment for any degree/ course in the University. This policy should be deemed a part of the conditions of employment for every employee of the University and a part of the conditions of enrollment of students at the University and to all existing staff and students. Further, the University reserves the right to amend the IPR Policy as and when such need arises.

All potential inventors who participate in a sponsored research project and/ or make use of University-sponsored resources should abide by this policy and should accept the principles of ownership of IP as stated in this policy unless an exception is approved in writing by the University. All inventors of IP should execute appropriate documents required to set forth effectively the ownership and rights as specified in this policy. It would be obligatory for all Faculties/ Research Fellows/ Post-doctoral Fellows/ Students/ Laboratory Staff/ Visiting Scientists/ Collaborators to follow the IPR Policy of Mody University of Science and Technology and abide by various terms and conditions laid in it. No patentable invention /technology innovation / trademarks developed by them and others they should be working with, be disclosed to any other party. Any prior disclosure, directly or indirectly, either during the period of work or after its termination, should render them prosecutable as per laws that may be in force at the time. Furthermore, no copyright material assigned by them to the Mody University of Science and Technology should be reproduced by them beyond that which falls under fair use and they should retain only moral rights to this material.

6.2 Intellectual Property (IP) Ownership criteria

The ownership criteria for various types of IPs developed by the employees and students of Mody University of Science and Technology should be determined as follows:

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6.2.1 – Patents;

- a) If an employee makes an invention, the rights usually belong to the employer. This means that IP developed by the University researcher is owned by the University, with the researcher(s) named as inventor(s). The Mody University of Science and Technology will be the sole owner/assignee of the patent if the invention domain falls within the specialization of the inventors, depending upon the following conditions. If the invention domain falls out of the specialized areas of the inventor and involves no use of University resources, then the inventor will be the individual owner/assignee of the IP created, however, he/she will have to seek permission from the University before applying for the protection of the IP.
- b) IP generated by an employee, a student/ researcher of the University or visiting professional should always be the property of the Mody University of Science and Technology whether University resources are used or not. The University will thus be the assignee while the researchers will be the inventors. Where a patent is applied for, the inventors should agree to maintain secrecy and confidentiality of all relevant details of IP until the patent application has been filed.
- c) The University will be the sole assignee of IP created through sponsored research where the sponsor does not claim IP rights.
- d) If a University employee or a student creates IP while working with another Organization (s)/Industry (ies)/sponsor, where the latter claims IP rights, it should be jointly owned by the Mody University of Science and Technology, and the Organization (s)/Industry (ies) / sponsor.
- e) Any IP generated as a work for hire will belong to the University.
- f) Royalty accruing or any type of payment received from the commercialization of the University-owned IP should be shared between the University and the inventors vide policy guidelines of MUST for revenue sharing.

6.2.2. Copyright

The University will own the rights in copyrightable works such as books, articles, monographs, lectures, speeches, video presentations and other communications produced by the staff in the course of research and teaching. Ownership of the copyright of all copyrightable work will be according to the following criteria:

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- a) The University would be the owner of the copyright of the work related to the area of specialization including software created by the University personnel with the use of University resources other than a literary work.
- b) The University would be the owner of the copyright of all teaching materials developed by the University personnel as a part of any of the academic programs of the University. However, the authors should have the right to use the material in her/his personal use.
- c) The University would be the owner of the copyright of the work produced by non- University personnel associated with any activity of the University with the intellectual contribution of the University personnel. However, the authors should have the right to use the material in her/his professional capacity.
- d) If the work is produced during the course of sponsored and/or collaborative activity, specific provisions related to IP, made in contracts governing such activity, should determine the ownership of IP.
- e) The student and his/her supervisor(s) will jointly have the ownership of copyright in the thesis / dissertation / project report written by a student.
- f) Where copyright has not been assigned to the University, the University will be entitled to a non-exclusive, non-transferable license to use the work within the University for Non-commercial, educational and research purposes, or to possess a limited number of copies for such purposes, whichever is relevant.

6.2.3 Softwares, designs, integrated circuit layouts and other creative works

- a) The University should be the owner of all softwares, designs and integrated circuit layouts, created by a team of the University and non-University personnel associated with any activity of the University.
- b) Softwares, designs and integrated circuit layouts produced during the course of sponsored and / or collaborative activity, specific provisions related to IP made in the contracts governing the collaborative activities should determine the ownership of IP.
- c) Softwares, designs and integrated circuit layouts created by the University personnel without use of the University resources and not connected with the profession for which he/she is employed at the University should be owned by the inventor(s).

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6.2.4 Open and distance education material

All original works/study material, in print or electronic mode, submitted by the 'contractual contributors'/faculty member of University for open and distance education programmes/courses being offered by the University, for which University has paid salary/ honorarium, will remain the property of the Mody University of Science and Technology. The University has the right to use the study materials developed by the faculty member and/or by some 'contracted contributor/author' for the University's own educational, research, and other purposes.

6.2.5 In-House Research:

All rights in respect of investigations carried out at the University shall vest in and be the absolute property of the University except in respect of the activities carried out jointly with other Universities, institutions or agencies or under a sponsorship by an agency, in which case the ownership will be decided and agreed upon mutually.

6.2.6 Sponsored Research:

Intellectual Property Rights (IPR) of inventions arising out of research projects undertaken on behalf of the sponsoring agencies shall be taken jointly in the name of the University and sponsoring agencies; when the sponsoring agencies bear the cost of filing and maintaining of the IPR equally. If the sponsoring agencies are not forthcoming, the University at its discretion may file the application with absolute ownership and University will meet the entire cost of filing and protection of IPR.

6.2.7 Collaborative Research:

All intellectual property jointly created, authored, discovered, invented, conceived or reduced to practice during the course of collaborative research undertaken jointly by University with Collaborating Institutions, shall be jointly owned; and the collaborating institutions will be requested to bear the cost of filing and maintenance of the IPR. In case the collaborating institutions are not forthcoming to bear fully the cost of filing and maintenance, if considered expedient by the University, the University will share the cost equitably with the collaborating institutions. Where the collaborating institutions are not forthcoming for filing joint IPR

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application, the University at its discretion may file the application with absolute ownership and University will meet the entire cost of filing and protection of IPR.

6.2.8 Handling of thesis, term papers and research proposals submitted by students

The texts of all student thesis and dissertations and works derived from these are considered 'exempted scholarly works'. It is a requirement in academia that the supervising teacher and the student must own the copyright of the thesis, term papers and the research proposals which the students submit for the fulfillment of the requirements for an academic degree or diploma. However, the supervising teacher and the student will grant a non-exclusive, non-transferable, royalty-free license to the University for use of these, in the course of non-commercial academic activity.

The supervisor of the student submitting the thesis holds all rights in inventions, discoveries or rights of patent and / or similar property rights derived from the thesis wherever the thesis has been completed. If the author/supervisor wishes to file a patent based on the thesis, they will have to maintain confidentiality while the University will restrict access to the thesis for a limited period and will not disclose any part of thesis to any person(s) without written authorization from author for one year after the date of submission of the thesis or filing a patent, whichever is earlier.

The University will be assigned all the Intellectual Property Rights for the inventions while the copyright of the thesis in which this invention is described or outlined will remain with the teacher and the student. If the student is employed to assist in the execution of a sponsored project or program, the IPRs in their contribution to that project will be governed by the terms of the contract between the student, supervisor, the University and the sponsoring agency of the project.

6.3 IPR Policy Administration

This policy should be applicable to all the University personnel, as well as non-University personnel associated with any activity of the University and will be controlled by the University's Intellectual Property Right Cell.

6.3.1 IPR Cell Body

University's Intellectual Property Right Cell the tenure of the members of the IPR cell shall be of three years and the Cell will be responsible to administer all decisive issues related to IP policy and other relevant matters as should be determined from time to time.

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1 Copy to MU, Delhi 1 Copy to MU, Lakshmangarh 1 Copy to each endorsee as below.		MODY UNIVERSITY OF SCIENCE AND TECHNOLOGY LAKSHMANGARH	MORP- I-3
Signature	<i>Uma Bhandwaj</i>		Intellectual Property Rights (IPR) Policy
Name	President *		Page of 18
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6.3.2. Right to Regulate Policy

The IPR Cell will be responsible for interpreting the policy, resolving disputes and recommending changes to the policy from time to time. The IPR Policy may be reviewed after every two years or earlier, if a major change in the same takes place at the national level. The IPR cell will arrange IPR awareness workshops and seminars time to time to encourage researchers for innovations.

6.3.3. Assessment of Innovation for Protection

To facilitate the assessment of creations for protection, the IPR Cell will seek the services of Patent Information Centre (PIC) of DST Rajasthan for novelty assessment of innovation. Department of Science and Technology, Government of India has established Patent Information Center (PIC) at DST Rajasthan with technical support of TIFAC, New Delhi. PIC is facilitating Universities for registration and management of Intellectual Property Right.

6.3.4. Authority regulating all Contracts and Commitments

All Commitments, Agreements, Memoranda of Understanding, relating to commercialization or exploitation of University-owned IP will be granted in the name of the Mody University of Science and Technology for and on behalf of the Registrar, MODY UNIVERSITY OF SCIENCE AND TECHNOLOGY.

6.3.5. Contracts and agreements

All agreements, undertaken by any University personnel and students need to be approved by the Registrar, Mody University of Science and Technology who shall act as the final signing authority in all the categories of agreements listed on the recommendations of the IPR Cell of the University.

6.4. Regulation of IPR Policy

The IPR Cell will prepare the IPR Policy of Mody University of Science and Technology and other recommendations as may be considered appropriate for the implementation of the guidelines and provisions of IP policy adopted by the Mody University of Science and Technology. The policy will also be made available online on the research resource page in the university website (www.modyuniversity.ac.in).

The policies set forth herein constitute the understanding which is binding on University faculty,

[Signature]
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staff, and students as a condition of their participation in University research, teaching, and service programmes.

6.4.1. Transparency of IP Administration

The University and the inventors should maintain complete transparency in sharing information at all stages of the process. The inventors should keep the IPR Cell of the University informed of updates or the development of the IP.

6.4.2. Responsibilities of Departments

Each department will administer Mody University of Science and Technology IPR policy as defined herein. In particular, each inventor must maintain in his or her department records detailing his or her activities in generating IP. Such records must be made available on demand to the IPR Cell.

6.5 Process of Filing the Patentable Invention

The inventor(s) will submit an application in the prescribed format giving all the necessary information as required by Indian Patent Office. In general the following information may be required.

- Full and complete disclosure of the nature, particulars and other details of the IP, indicating the problem for which solution was researched with identification of all persons who constitute the inventor(s) team
- In case of the sponsored and/or collaborative work the provisions of the contract pertaining to disclosure of the creative work and IP protection should be mentioned.
- An undertaking that the disclosed work has not been communicated or published or discussed in any conference/ workshop/ journal/ book/ lecture. The inventors should understand the legality of such disclosures and then later on it turns out that absolute novelty is missing due to prior disclosure through above means.
- What parts/steps, make up the invention?
- Which parts/steps are new to this invention, which are old?
- How does your invention perform its function in a different way from or better than the existing devices (methods)?

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- g) Who would be likely to purchase or use the invention?
- h) Has the work been reported / published / presented oral or poster anywhere (if yes, give full description)?
- i) Has any related patents been filed by the inventor?
- j) Has the permission been taken from National Biodiversity Authority/ Board in case a biological sample has been used? Attach the copy of the permission
- k) Has the microorganism been deposited with the International Depository, in case your invention involves the use of a microorganism? If yes, attach the copy of the letter
- l) Information available in the published literature (prior-art) about the problem tackled
- m) Is the work completed and the results validated or is at a basic conceptualization stage?
- n) The inventor should assign the right of the disclosed IP to the University and agree to the terms and conditions for the sharing of any financial benefits received by the University as a result of commercialization.

6.5.1 Mandatory Disclosures

The inventor(s) will make all the mandatory disclosures as required under Indian Patent Act (including Amendment(s) if any) and Rules made there under. Permission to use IPR of other inventor(s) will be taken in advance and disclosure will be made accordingly.

6.6 Evaluation of the Documents

The IPR Cell of the University will evaluate the documents submitted by the inventor(s) and the prior-art report prepared by the University IPR Cell to determine whether there is a good prima facie case for believing that the IP has economic value and it needs protection.

6.7 Commercialization of IP

The University will encourage the inventors to commercialize their intellectual property by organizing specific Industry (ies) interactions for showcasing the inventions. In case a patent is to be applied for, the inventor should agree to maintain all relevant details of IP secret and confidential until the patent application has been filed. The third party route for commercialization may be explored provided all issues concerning confidentiality etc are taken care of.

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06/12/2024

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6.8 IP Licensing and Technology Transfer

6.8.1 Licensing

Licenses may be awarded on an exclusive or non-exclusive basis and may provide for payment of license fees, milestones, royalties or other income to the owner of the intellectual property. In case of IP arising out of sponsored research, following guidelines will be followed for licensing:

- When the inventor generates an IP at MODY UNIVERSITY OF SCIENCE AND TECHNOLOGY, the sponsor will get an option to license the resulting IP on terms to be negotiated on a case-by-case basis. The sponsor has to either accept or refuse its 'first-refusal option' within 90 days of the date of the offer of the option by the University to the sponsor. If the University finds that the sponsor has not taken steps to commercialize the property within one year of acceptance of the option, the University will be free to revoke the license. Confidentiality agreements will continue to apply in that event.
- If the sponsor refuses to exercise his or her first-refusal licensing option, the University will proceed to commercialize the IP in such manner as it deems fit.

The University may, at its own discretion, contract with sponsors to allow them specific rights, whether exclusive or non-exclusive, in the IP whose creation they sponsor, if in the University's opinion the granting of such rights will facilitate the commercialization of the IP.

6.8.2 Technology Transfer

The Intellectual Property of the University held either in the name of MODY UNIVERSITY OF SCIENCE AND TECHNOLOGY or jointly with other Institutions/Industry (ies) will be marketed for commercial exploitation under agreements involving technology transfer, licensing and revenue sharing models.

The IP Cell shall identify potential licensee(s) on the advice of the patent holder, for the IP to which MODY UNIVERSITY OF SCIENCE AND TECHNOLOGY has ownership. In case of joint ownership, the Organization (s)/Industry (ies) which has sponsored the activity, as agreed upon by Mody University of Science and Technology and Collaborator.

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a) In the event of the other collaborating Organization (s)/Industry (ies) not undertaking the commercial exploitation within a reasonable period of two years from the first date of development of the technology. MODY UNIVERSITY OF SCIENCE AND TECHNOLOGY reserves the right to transfer the said know-how to a Third Party for its commercial exploitation and use. In such instance, however, MODY UNIVERSITY OF SCIENCE AND TECHNOLOGY shall share the net proceeds from such commercial assignments, in equal measure with the collaborating Organization (s)/Industry (ies) in the ratio 1:1.

6.9 Revenue Sharing

The revenue arising out of licensing of IP and royalty would be shared in the appropriate ratio (currently, this ratio is 60:40) between the inventor(s) and the Institute. Where MODY UNIVERSITY OF SCIENCE AND TECHNOLOGY reassigns the right of the IP to its investor(s), the inventor(s) shall reimburse all the costs incurred by MODY UNIVERSITY OF SCIENCE AND TECHNOLOGY, which include protection, maintenance, marketing and other associated costs.

6.10 Infringements, Damages, Liability and Indemnity

- a) MODY UNIVERSITY OF SCIENCE AND TECHNOLOGY shall, in any contract between the licensee and MODY UNIVERSITY OF SCIENCE AND TECHNOLOGY, seek indemnity from any legal proceedings including this, but not limited to manufacturing defects, production problems, design guarantee, upgradation and debugging obligation.
- b) MODY UNIVERSITY OF SCIENCE AND TECHNOLOGY shall also ensure that MODY UNIVERSITY OF SCIENCE AND TECHNOLOGY personnel have an indemnity clause built into the agreements with licensee(s) while transferring technology or copyrighted material to licensees.
- c) MODY UNIVERSITY OF SCIENCE AND TECHNOLOGY shall retain the right to engage in or desist from or not in any litigation concerning patent and license infringements.

6.11 Conflict of Interest

- a) The inventor(s) are required to disclose any conflict of interest or potential conflict of interest.
- b) If the inventor(s) and/or their immediate family have a stake in a licensee-company, then they

Uma Bhargava
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are required to disclose the stake they and /or their immediate family have in the company, and license or an assignment of rights for a patent to the licensee - company in such circumstances, shall subject to the approval of the IPR Cell of MODY UNIVERSITY OF SCIENCE AND TECHNOLOGY.

6.12 Dispute Resolution

In case of any disputes between MODY UNIVERSITY OF SCIENCE AND TECHNOLOGY and the Inventor(s) regarding the implementation of the IP policy, the inventor(s) may appeal to the Vice- Chancellors of MODY UNIVERSITY OF SCIENCE AND TECHNOLOGY. Efforts shall be made to address the concerns of the inventor(s) by developing and instituting an arbitration mechanism and arrangement. The Vice- Chancellor's decision in this regard would be final and binding on both institute and inventor.

6.13 Jurisdiction

As a policy, all agreements to be signed by MODY UNIVERSITY OF SCIENCE AND TECHNOLOGY will have the jurisdiction of the courts in Lakshmangarh, Dist Skar, Rajasthan, and shall be governed by appropriate laws in India.

6.14 Other pertinent issues:

6.14.1 Publication of Thesis/Project Work, Term Papers and Research proposals

It is possible that the research carried out by students as part of the program of study may result in the generation of IP other than the text of the thesis/project work. Supervisors should advise the students during the course of their work that certain kinds of research may lead to the generation of IP which will require protection of its commercial value through confidentiality, for which the student will have to hold publication/disclosure before the filing of a patent. Care should be taken at all stages to see that no conflict of interest arises between the student's academic activities and the generation of IP.

Where the thesis/project work of a student contains details of commercializable IP, the University, the supervisor and the student must agree to keep the thesis/project work, in part or whole, and all relevant documents, confidential until the process of securing the statutory protection for

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the IP is complete. It should be noted that the submission of the thesis/project work for examination does not violate confidentiality because the thesis/project work remains confidential until the examination process is over.

It is to be noted that retention of the hard copy by the University library is essential for meeting the requirements for a degree, and the supervisor and the student must agree to allow the thesis to be made available electronically.

6.14.2 Deposition of the biological cultures isolated from the environment or genetically modified organisms

All biological cultures, including microorganisms, cell lines, plants and animals, isolated from the environment or genetically modified during the course of study by the students/ research scholars/ Research assistants/ associates/ post doctorate fellows should be the property of the University under the name of the supervisor (s). These cultures should be deposited to the supervisor before getting the clearance from the department. The students cannot use the same for any academic or commercial purpose without the written consent of the supervisor.

6.14.3 Protection of biodiversity and traditional knowledge

Mody University of Science and Technology confirms that it abides by the national laws on biodiversity and traditional knowledge. Inventor(s) has/have to make sure that the conditions under the national laws on biodiversity and traditional knowledge are not breached during the course of obtaining any IP protection or any use of such knowledge.

V. L. Dutt
06/12/2024

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Lakshmangarh (Distt Sikar) 332311

CC: President, Director, Dean-Administration, All Deans, Principals, Registrar, All GMs, COE, EA to Hon'ble Chairman (Kolkata Office)

No.: Mody University/2020/Committee/IPC/1

Date: 18.01.2020

Subject: Constitution of Intellectual Property Cell (IPC)

Mody University of Science and Technology, Lakshmangarh, District -Sikar Rajasthan Act-29, 2013, vide resolution in its meeting held on 16th January,2020 has approved the Intellectual Property Cell (IPC).

Intellectual Property plays an important role in providing a competitive edge to an organization. IP is protected in law by, for example Patents, Copyright, innovation products, inventions. Intellectual Property (IP) refers to creations of the mind which enable people to earn recognition or financial benefit from what they invent or create. By striking the right balance between the interests of innovations and the wider public interest the IP system aims to foster an environment in which creativity and innovation can flourish. Therefore the policy of IPR is to be laid down to fulfill the commitment of the University to promote academic freedom and provide a conducive environment for research and development.

Keeping all the above aspects in mind, we are opening an IPR cell in the University to facilitate all the researchers to come on a common platform for availing this facility. Further the following faculty members of different Schools of the University will shoulder this responsibility.

The Board of Management of Mody University in exercise of its powers as conferred under Section 22 (2) (a) and 22 (2) (d) of the Mody University of Science and Technology Act, 2013 has approved the constitution as recommended by the Academic Council as detailed below:

Sr. No.	University Persons	Designation
1.	Director-MUST	Chairman
2.	Dean- School of Architecture	Member
3.	Dean- School of Business	Member
4.	Dean- School of Design	Member
5.	Dean- School of Engineering and Technology	Member
6.	Dean- School of Law	Member
7.	Dean- School of Liberal Arts and Sciences	Member
8.	Prof. (Dr.) K.L. Ameta	Member Secretary

Vijit
06/12/2019
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Vijit
Registrar

Key Indicator - 3.1 Promotions of Research and Facilities

Metric 3.1.1[The institution Research facilities are frequently updated and there is well defined policy for promotion of research which is uploaded on the institutional website and implemented]

Reward List (2020-21)

MUST

Publications in Journals, Books and Patents

- Total reward money recommended for publications of faculty members: 81,000/- (Best 27 Publications)
- Total reward money recommended for publications of books: 15000/- (3 Books)
- Total reward money recommended for publications of patents: 20000/- (4 patents)

Grand Total= 1,16,000/-

- Only first, second, third and corresponding authorship are considered for award.
- For Impact factor, Thomson Reuters has been considered
- Single Faculty Publication of MUST=3000/-
- Two Faculty Joint Publication MUST=1500/-
- Three Faculty Joint Publication MUST=1000/-

Name of Faculty	Type of Publications			Award Money
	Research Paper	Patents	Book	
Dr Narendra Kumar	1	0	0	3000/-
Dr Manoj Mishra	1	0	0	3000/-
Dr K P Sharma	1	0	0	1000/-
Dr R K Verma	3+1	0	0	10000/-
Ms Poornima Saraswat	1	0	0	1000/-
Dr Sanjeev Jakhar	2	0	0	6000/-
Dr Shivendra Singh	1	0	0	1500/-

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Prof K L Ameta	3+1	2	Authored	24500/-
Prof Uma Bhardwaj		1		5000/-
Prof Smiriti Agarwal		1		5000/-
Dr Navneet Joshi	1	0	0	3000/-
Dr Rajesh Sharma	5	0	0	15000/-
Dr Puneet Gupta	0	0	Edited	1000/-
Dr Vikrant Sharma	0	0	Authored	2000/-
Dr Atul Sharma	0	0	Authored	2000/-
				83000/-

Research Publications:

S. No.	Article Details	Journal	IF	Author to be Awarded	Amount
1.	A Kumar, N Kumar, GN Pandey, D Singh, KB Thapa (2020): Metamaterial-plasma based hyperbolic material for sensor, detector and switching application at microwave region IOP (UK): Journal of Physics: Condensed Matter 32, 325701 (0953-8984).	Journal of Physics: Condensed Matter	2.7	Dr. Narendra Kumar, SLAS	3000=00
2.	M Mishra, M Sharma and P. Gupta (2021): Compact MIM Plasmonic Ring Resonator for Nano-Interconnect Applications. Physica E Volume 130, 114711 (Accepted) (1386-9477)	Physica E	3.57	Dr. Manoj Mishra, SLAS	3000=00
3.	Saraswat, P., Yadav, P., Verma, R., Gaur, R.K., & Sharma, K.P., Effect of Prosopis cineraria (L) druce pods and camel milk for nutritional enrichment in traditionally fermented minor millet's drink, International Journal of Gastronomy and Food Science 2020 22 100251 (1878-450X)	International Journal of Gastronomy and Food Science	1.93	Dr. K.P. Sharma and Dr. R.K. Verma, SLAS	1000 Ms. Poornima Saraswat 1000 Dr. K.P. Sharma 1000 Dr. R.K. Verma
4.	Mishra M, Verma RK, Marwal A, Sharma P, Gaur RK (2020): Biology and interaction of the natural occurrence of distinct monopartite begomoviruses	Frontiers in Microbiology	1.35	Dr. R.K. Verma, SLAS	3000=00

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	associated with satellites in Capsicum annum from India. Frontiers in Microbiology, 11,				
5.	Verma, R.K., Mishra, M., Marwal, A. Gaur RK, Identification, genetic diversity and recombination analysis of Watermelon Mosaic Virus isolates 3 Biotech 2020 10 257 (2190-5738)	3 Biotech	2.27	Dr. R.K. Verma, SLAS	3000=00
6.	Mishra, M., Verma, R.K. & Gaur, R.K., Identification of Chilli leaf curl virus and associated betasatellite infecting Osteospermum fruticosum in Rajasthan, India 3 Biotech 2020 10, 169, 2190-5738	3 Biotech	2.27	Dr. R.K. Verma, SLAS	3000=00
7.	Nikhil Gakkhar, Sanjeev Jakhar Experimental and theoretical analysis of hybrid concentrated photovoltaic/thermal system using parabolic trough collector Applied Thermal Engineering (Elsevier) 2020 171 115069-87 1359-4311	Applied Thermal Engineering	4.062	Dr. Sanjeev Jakhar, SET	3000=00
8.	Nikhil Gakkhar, Sanjeev Jakhar Experimental investigation of exergy performance of a water cooled hybrid photovoltaic thermal collector International journal of exergy, 2020, 31, 330-351 1742-8300	International journal of exergy	1.012	Dr. Sanjeev Jakhar, SET	3000=00
9	Shivendra Singh, Suresh Singh Chauhan, Neeraj Kumar Sharma, Sunil Dutt, Keshav Lalit Ameta*, Diverse Routes for the Synthesis of Indole-Fused Complex Architecture from Simple Molecules Mini-Reviews in Organic Chemistry (BenthamScience) 2020 Volume 18 , Issue 2 , 2021 236 - 257 1570-193X	Mini-Reviews in Organic Chemistry	1.82	Dr. Shivendra Singh Dr. K.L. Ameta, SLAS	1500/- Dr. Shivendra 1500/- Dr. K L Ameta
10	Chayanee Kaewproma , Yonarpach Areeerobb , Won-Chun Ohb , Keshav Lalit Ameta* and Saksit Chanthai Simultaneous determination of Hg(II) and Cu (II) in water samples using fluorescence quenching sensor of N-doped and N,K co-doped graphene quantum dots. Arabian Journal of Chemistry (Elsevier) 2020, IF 4.76 2020 13(2), 3714-372 1878-5352	Arabian Journal of Chemistry	4.76	Prof. K.L. Ameta, SLAS	3000=00
11	Alhaithloul, H.A.; Soliman, M.H.; Ameta, K.L.; El-Esawi, M.A.; Elkesh, Changes in Ecophysiology, Osmolytes, and Secondary Metabolites of the Medicinal	Biomolecules	4.081	Prof. K.L. Ameta, SLAS	3000=00

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	Plants of Mentha piperita and Catharanthus roseus Subjected to Drought and Heat Stress Biomolecules, 2020, 10 (1)P 1-21. 2218-273X				
12	Shilpi Srivastava Kavya Dashora Keshav Lalit Ameta, Nagendra Pratap Singh Hesham Ali El-Enshasy Marcela Claudia Pagano Abd El-Latif Hesham Gauri Dutt Sharma Minaxi Sharma Atul Bhargava Cysteine-rich antimicrobial peptides from plants: The future of antimicrobial therapy Phytotherapy Research (Wiley) IF-4.087 2021 Volume35, Issue1 256-277 1099-1573	Phytotherapy Research	4.087	Prof. K.L. Ameta, SLAS	3000=00
13	Vahid Karpisheh , Navneet Joshi , Angelina Olegovna Zekly, Behzad Beyzai, Mohammad Hojjat-Farsangi, Afshin Namdar , Mahdi Edalati , FarhadJadidi-Niaragh, EP4 receptor as a novel promising therapeutic target in colon cancer, Pathology - Research and Practice (2020), 216, 1 to 11 0344-0338	Pathology Research and Practice	2.050	Dr. N. Joshi, SLAS	3000=00
14	Rajesh Sharma, Avik Sinha, Pradeep Kautish, Does renewable energy consumption reduce ecological footprint? Evidence from eight developing countries of Asia, Journal of Cleaner Production 2021 285 124867 0959-6526	Journal of Cleaner Production	7.246	Dr. Rajesh Sharma, SoB	3000=00
15	Pradeep Kautish, Justin Paul, Rajesh Sharma, The effect of assortment and fulfillment on shopping assistance and efficiency: An e-tail servicescape perspective, Journal of Retailing and Consumer Services, 2021, 59, 102393, 0969-6989	Journal of Retailing and Consumer Services	4.219	Dr. Rajesh Sharma, SoB	3000=00
16	Muhammad Shahbaz, Rajesh Sharma, Avik Sinha, Zhilun Jiao, Analyzing nonlinear impact of economic growth drivers on CO2 emissions: Designing an SDG framework for India Energy Policy 2021 148 111965 0301-4215	Energy Policy	4.036	Dr. Rajesh Sharma, SoB	3000=00
17	Rajesh Sharma, Avik Sinha, Pradeep Kautish, Does financial development reinforce environmental footprints? Evidence from emerging Asian countries, Pollution Research 2021 28 9067-9083 1614-7499	Environmental Science and Pollution Research	3.3	Dr. Rajesh Sharma, SoB	3000=00

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18	Rajesh Sharma, Avik Sinha, Pradeep Kautish, Examining the impacts of economic and demographic aspects on the ecological footprint in South and Southeast Asian countries, Environmental Science and Pollution Research 2020, 27 36970-369821614-7499	Environmental Science and Pollution Research	3.3	Dr. Rajesh Sharma, SoB	3000=00
Total: 54000/-					

Books:

S. No.	Details	Faculty to be Awarded	Amount
1	(Authored Book) K L Ameta, AK Goswami and S Khan: Hydroxytriazenes and Triazenes: The Versatile Framework; Synthesis and Medicinal Applications.) 2020 Taylor and Francis, USA	Prof. K.L. Ameta	4000/=
2	(Edited Book) Puneet Kumar, V.K. Jain, Artificial Intelligence and Global Society: Impact and Practices 2021 CRC Press, Taylor and Francis Group, Chapman and Hall Publication	Dr. Puneet Kumar	1000/=
3	(Authored Book) Vikrant Singh, V.K. Jain, Atul Kumar An Introduction to Optimization Techniques 2021 CRC Press, Taylor and Francis Group, Chapman and Hall Publication	Dr. Vikrant Singh Dr. Atul Kumar	2000/= 2000/=
Total			9000/-

Vijit
8/12/2021
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Patent

Sr No.	Title of Patent	National/ International	Applicant/s	Publication/ award details	Faculty To Be Awarded	Amount
1	Liquid alcohol based skin sanitizing solution with antiviral property	National	Prof. Uma Bhardwaj	No.202021030325 A, Publication Date : 04/09/2020, The Patent Office Journal No. 36/2020 Dated 04/09/2020	Prof. Uma Bhardwaj	5000/=
2	A Novel Heterocyclic Bismuthine Compound for Bio-medicinal Application and Method of Synthesis Thereof	National	Ameta K L, Kant Ravi	Publication date 19 June, 2020. (The Patent Office Journal No. 25/2020 Dated 19/06/2020, P.23067).	Prof. K L Ameta	5000/=
3	A Novel Bismuthino for Bio-medicinal Application and Method of Synthesis Thereof	National	Ameta K L, Kant Ravi	Publication date 19 June, 2020. (The Patent Office Journal No. 25/2020 Dated 19/06/2020, P.23092)	Prof. K L Ameta	5000/=
4	A process of preparing herbal face mask	National	Prof. Dr. Smriti Agarwal	26.06.2020	Prof. Smriti Agarwal	5000/=
Total						20,000/-

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