

Criterion - 7

Institutional Values and Best Practices

NAAC- SSR (2nd Cycle)



ETERNAL UNIVERSITY

BARU SAHIB, SIRMOUR-173101
HIMACHAL PRADESH

7.3.1(3)

IPR and patents



ETERNAL UNIVERSITY

BARU SAHIB, SIRMOUR-173101
HIMACHAL PRADESH

SPONSORED RESEARCH, INDUSTRIAL CONSULTANCY AND INTELLECTUAL PROPERTY RIGHTS

Eternal University, Baru Sahib

The Eternal University Baru Sahib, sponsored by Kalgidhar Trust and established under Act No. 3 of 2009 by the Himachal Pradesh Government, is one of the few private universities in the world committed to value based higher scientific and technical education as per the vision, prophesy and blessings of Sant Baba Attar Singh Ji, Mastuane Wale and Sant Teja Singh Ji. Situated in the Valley of Divine Peace, Baru Sahib, Eternal University provides a peaceful, spiritual, drug and pollution free environment for comprehensive education and harmonious development of its students in a home away from the worldly distractions. The university is duly recognized by the UGC, AICTE, INC, NCTE, DSIR, DBT and DRDO for undertaking diverse teaching programmes, research and extension activities. Recently the university has also been awarded the Minority Educational Institution Status by the National Commission for Minority Educational Institutions, New Delhi. Eternal University is offering nearly 50 undergraduate to Ph. D. programmes. It is the first private university in Himachal Pradesh to establish under it, College of Agriculture with a view to improve the local field, fruit and vegetable crops, nutraceutical and pharmaceutical potential of functional foods and medicinal plants and their value addition. Multidisciplinary faculty of the university has adopted five village clusters from the Sirmour district to ensure their food, nutrition, economic and health security and inclusive development. Baba Iqbal Singh Ji, former Director Agriculture, Himachal Pradesh and President of the Kalgidhar Trust is the Hon'ble Chancellor of the Eternal University.

The Eternal University has the following Seven Constituent Colleges:

- Akal College of Agriculture
- Akal College of Engineering & Technology

- Akal College of Basic Sciences
- Akal College of Health & Allied Sciences
- Akal College of Arts and Social Sciences
- Akal College of Education
- Akal College of Economics, Commerce & Management

Eternal University has experienced and distinguished faculty of international repute working in diverse and cutting edge research areas. There are 6 on-going projects funded by DBT, MOFPI and HPSCT & E. Nearly 20 projects have been submitted to CSIR, DBT, DST, ICAR, HPSCST & E for funding in the area of biofortification of wheat for micronutrients, improvement of maize nutritional quality, nutraceuticals of functional foods, disease resistance in vegetable crops, development of microbial inoculants for nutrient and water use efficiency, drug designing, nanotechnology, enzymology, biodiesel and kits for food adulteration etc.

Salient Achievements:

- Several wheat lines with high grain iron and zinc content with yield comparable to commercial cultivars have been developed which can be used to alleviate the wide spread micronutrient deficiency among Indian population.
- Quality protein maize hybrids with high amount of essential amino acid tryptophan and lysine with protein quality equivalent to milk casein have been introduced.
- Soybean lines without the Kunitz protease inhibitor have been identified and found suitable for human consumption with least processing.
- Series of nanoparticles have been synthesized using various methods and extensively characterized for diverse applications in industry.
- Several bacterial and fungal isolates producing phytases to degrade the most notorious anti-nutritional factor Phytic acid have been isolated and characterized for commercial application to enhance bioavailability of micronutrients.
- Highly concentrated wheat grass juice powder with nutraceutical quality equivalent to fresh juice has been developed through freeze drying.
- Pearl millet hybrids with high grain iron, zinc and fibres have been introduced, successfully grown and maintained.
- A number of medicinal plants of mid-Himalaya have been identified and multiplied and bioprospection of their phytochemical potential for control of various diseases is in progress.

- Insects and fungi for biocontrol of the obnoxious weed *Parthenium hysterifolia* have been identified, multiplied and used for detailed studies.

Looking at the future aspects of research and development, there is a need of rules and regulations for support, promotion and implementation of sponsored research and industrial consultancy by the end users.

Therefore, the Sponsored Research and Industrial Consultancy (SR & IC) rules and regulations in the following sections shall be applicable to all activities related to Research and Industrial Consultancy projects/assignments of all the Colleges & Departments of Eternal University.

1. SCOPE

Sponsored Research and Industrial Consultancy (SR & IC) cell will be set up to keep an interface between funding agencies, industries and the Eternal University to orderly handle sponsored and consultancy research projects.

2. TERMINOLOGY

2.1 SPONSORED RESEARCH PROJECTS: Time and cost bound projects sponsored by government, public, private, national/international agencies and autonomous bodies. The project cost including cost towards contractual manpower, deputed manpower, equipment, consumables and supporting services of the University are borne by the sponsor.

- The sponsored project can be taken by the individual faculty/academic staff or collectively by a group of investigators
- One of the investigators must be the Principal Investigator (PI) while others are the Co-investigators
- A sponsored research project may be initiated either by the faculty member of the University submitting a proposal to the sponsoring agency
- A sponsored research project may also be initiated by a client, institution or industry seeking help of the University

2.2 SPONSOR: The Organization that sponsors the Project to the University and gives necessary financial support for successful completion of the project in time.

- 2.3 PRINCIPAL INVESTIGATOR (PI):** A member of the group or a faculty of the University with necessary expertise and competence to carry out a Sponsored Research/Industrial Consultancy work. Normally, the person who submits the project proposal and discusses/negotiates it with the sponsor and is instrumental in getting the project is the Principal Investigator. For administrative reasons, the Principal Investigator of some projects can be appointed by the Vice-Chancellor of the University in consultation with the concerned members if the original PI leaves or his/her service are not available to the project for other reasons.
- 2.4 CO-INVESTIGATOR (Co-PI):** A faculty member or member of the consultancy group co-opted by the PI to work jointly with him. If PI leaves the University or goes on leave, a Co-Investigator assumes the functions of the PI with the approval of the Vice-Chancellor of the University.
- 2.5 ASSOCIATE INVESTIGATOR (AI):** A faculty member or a technical/scientific staff with sufficient expertise relevant to a project/consultancy work appointed by the PI under intimation to Vice-Chancellor who does not handle the project independently and he/she has to work with a PI or Co-PI.
- 2.6 INDUSTRIAL CONSULTANCY:** Time bound specific problem solving projects sponsored by the funding agencies with payment of consultancy fee/honorarium to the Investigator(s) in addition to all other expenses.
- 2.7 INDIVIDUAL RESEARCH AND DEVELOPMENT GRANT FELLOWSHIP:** Research and Development grants-in-aid offered to individual faculty, research fellows from the sponsors and executed using University facilities with financial support from the granting agencies towards equipment, contingency, overhead, fellowship etc.
- 2.8 COORDINATOR/DEAN SR & IC:** Interactions between the University and the sponsors are implemented and coordinated by the office of the Coordinator/Dean, Sponsored Research & Industrial Consultancy (SR & IC). The coordinator/Dean is appointed by the University and has full responsibility for project administration including
- Coordination/assignment of Sponsored Research and Industrial Consultancy projects from the Sponsor on behalf of the University

- The recruitment, selection, extension, assessment, termination and invoking of disciplinary procedure against project staff other than University staff
- Networking, scheduling, correspondence, documentation work etc.
- Coordinating all seminars, workshops, conferences, tours visits etc. as assigned to him
- To ensure that project should be started after getting sanction of the project from sponsor

3 MANPOWER AND ITS RECRUITMENTS

- 3.1 Open selection will be held for all project posts except for technical and support staff. For technical cadres, there will be an internal circular within the University first. If suitable candidates are not available from within the University for Deputation to the project, open selection will be made.
- 3.2 All project appointments will be contractual and on the basis of consolidated monthly compensation.
- 3.3 Automatic transfer from one project to another either on completion or midway shall not be permitted.
- 3.4 The tenure of contractual appointment of a project staff will be equal to the duration of the project as decided by PI.
- 3.5 A project employee shall execute a contract agreement on non-judicial stamp paper of value of at least Rs. 50/- with Eternal University at the time of joining with the explicit provision that contract may be terminated by the either side (Staff or Officer) by giving one month's notice or one month's consolidated compensation in lieu of the notice.
- 3.6 Selection of the staff shall normally be made as per the guidelines provided by the sponsoring agency and with the approval of the Vice-chancellor.
- 3.7 All appointment letters shall be issued under signature of the Registrar.
- 3.8 The PIs shall consider prevailing compensation package, general qualifications and experience for staff while preparing project proposal.

3.9 The selection Committee for the recruitment of project staff for each project will be constituted by the PI with the following membership:

- i) Vice-chancellor of the University or his nominee
- ii) Principal Investigator - Member
- iii) HoD of the concerned department
- iv) An expert on the subject (to be recommended by the Department/College) – Member
- v) Registrar- Member Secretary

The Vice-chancellor shall have power to fix, on the recommendations of the selection committee, the monthly consolidated compensation and the duration of the contractual appointment.

3.10 Under exceptional situation, on recommendation of the PI, short term job contracts is for 89 days and under some very special situation up to 6 months can be reconsidered by the Vice-chancellor.

3.11 Expenditure towards campus accommodation/HRA and medical facility shall be charged as per the salary head of the respective project.

3.12 All project staff shall work for the project only until and unless agreed to otherwise by the PI.

3.13 PIs shall be the sanctioning and controlling authority for all types of leaves with respect to contractual project staff.

3.14 Conduct Rules : The project employees shall-

- a) Follow general code of conduct as approved by the University.
- b) Maintain secrecy of the research findings/technical information and shall not get involved in unauthorized communication of any official document or information.

3.15 The PI 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 Vice-chancellor.

3.16 Project employees may be allowed to be registered for the Ph.D. programme if they fulfil all the requirements for admission as prescribed by the University.

4 FINANCE AND ACCOUNTS:

4.1 A separate book of accounts within the system of the University shall be maintained for each project. The coordinator shall be responsible for submission of initially audited statement of accounts as and when required by the sponsors. Govt./Chartered Account audited statement of accounts at the end of each financial year shall be provided, if required by the sponsor.

4.2 In general, for sponsored research projects 20% on the total project cost shall be charged towards service charges (overheads) for utilizing the infrastructure and other facilities of the University.

4.3 In the event, any project utilizes University's manpower and other supporting facilities beyond office hours, the expenses towards the same shall be charged to the respective project. For this purpose, on the recommendations of the PI concerned, the coordinator may approve suitable honorarium for the supporting staff of the University as per norms approved by University from time to time.

4.4 PIs shall arrange to maintain Procurement-cum-purchase Registers and Stock/Asset Register. These shall be verified by the University Auditors and the sponsor's office as and when required. All purchase proposals routed through the HoD following purchase procedures of the University, shall be processed by the University office with the help of Stores & Purchase Section of the University.

4.5 Accounts for sponsored projects shall be maintained under five broad budget heads such as:

(i) Salary, (ii) Equipment, (iii) Contingency & Consumables, (iv) Travel and (v) Service Charges (Overheads). Minor adjustment in the approved budget heads may be permitted by the PI.

4.6 Cash advance shall only be drawn in the name of permanent employees working in the projects.

- 4.7 All expenditures shall normally be made within the proposed date of completion (PDC) of the project. Exception may be permitted with the consent of the sponsor.
- 4.8 PIs shall normally be allowed to draw another advance only after adjusting the previous one taken by them unless otherwise agreed by the Vice-Chancellor.
- 4.9 In the event of non-availability of funds in a project, excess expenditures (if any), due to unforeseen reasons, the Sponsoring Agency will be approached to sanction additional funds or to permit the expenditure from another project of the same sponsor. If no additional fund is made available by the sponsor, the excess expenditures will be adjusted against the service charges payable to the University with the approval of the Vice-chancellor.

5 SPONSORED RESEARCH

A sponsored research project may be initiated either by the faculty member of the University submitting a proposal to the sponsoring agency or by a client institution or industry seeking help the Institute. The sponsored programme can be taken individually by individual faculty/academic staff or collectively by a group of investigators. One of the investigators must be the principal investigator (PI) while others are the principal co-investigators. Funding agencies generally prefer to have a co-investigator (Co-PI) who can take the place of the principal investigator in case the latter goes on leave or resigns.

5.1 Initial Steps

- **Project Identification Number:** As soon as the project sanction is communicated to the University by the funding agency, the SR & IC assigns a project number, which is used in all the correspondences within the University. This helps to identify the project and to facilitate the correct booking of the expenses.
- **Date of Commencement:** The due date of commencement of the project is the date of approval of the project by funding agency.

5.2 Administrative Support by SR & IC

The Institute provides the following administrative support and accounting facilities for carrying out the sponsored research projects:

- The Coordinator/Dean, SR & IC sanctions expenditure, recruitment of staff and distribution of honorarium to the PI and University staff.
- For purchase of material and equipment, the University rules shall be applicable.
- Temporary advance up to Rs. 10,000 is sanctioned by the Coordinator/Dean, SR & IC for minor purchases and incidental expenses. The PIs must settle these accounts within one month from the drawl of advance.
- An imprest amount subject to a maximum of Rs. 5,000/- per project is sanctioned by the Coordinator/Dean, SR & IC on the request of the PI. This can be operated by the PI. The imprest can be utilised for petty purchases, contingencies etc. and would be chargeable to sub heads like consumables or contingencies only and the specific sub head should be indicated in the recoupment account. The imprest can be periodically recouped by giving the up-to-date statement of accounts along with all the bills and vouchers duly certified. The accounts can be directly settled with the Accounts Section.

5.3 Project Accounts

- The project account is being maintained by the Office of SR & IC. The expenditures can be incurred only as per the head of sanction. Any deviation or reappropriation is possible only with the prior approval of sponsoring agency. Funds also cannot be diverted, for creating the infrastructural facilities without the approval of the funding agency.
- Whenever funds are to be claimed from the funding agency or bills to be sent against sanction, the same is sent to the sponsoring agency by the PI through the Accounts Section. For release of grants in subsequent years also, the Accounts Section may be approached for necessary statement of accounts (provisional or audited as the case may be) and with utilization certificates. Release of grants at the right time is to be ensured by the PI, as deficits in projects will affect the progress of the project.
- All reimbursements to the Project Investigators and Consultants may be made to the bank account with intimation to the Co-ordinator concerned through e-mail. The Investigators/Consultants shall indicate their e-mail ID and project account in the form of seeking reimbursement.

- All bills and invoices for payment against purchase order are to be sent to the Accounts Section for settlement duly certified by the PI after proper entries in the register.
- All bills duly certified with all the particulars, towards hiring of taxis, purchase of books, entertainment, subcontracting, travel expenditure of visitors etc. must be sent to the SR & IC.
- The accounts of the project will be audited every year. Audited statement of accounts and utilization certificates will be sent to the sponsors by SR & IC under intimation to the PI. If, however, provisional statement of the accounts is required for claiming funds from sponsors, Registrar may be approached for the same.

5.4 Incentives to the PIs

- The Project Investigators (PIs) can attend Conferences/Seminars workshops in related areas utilizing the project grants. There will be no ceiling for registration fee for attending any National or International Conference held in India or abroad. Specific approval of the funding agency to utilize the grants for travel abroad is to be obtained
- Health Insurance coverage during abroad visits and personal accident insurance for both PI and project staff on work relating to projects is permitted
- **Honorarium from Institutional Fund or contingencies to PI and Co-PIs:**
Rs. 2000/- per month to PI and Rs. 1000/- per month to Co-PIs if the total project cost is more than Rs. 10,00,000/-
Rs. 1000/- per month to PI and Rs. 750/- per month to Co-PI if the total project cost is less than Rs. 10,00,000/-
The maximum limit of honorarium will be Rs. 5000/- per month to PI and Rs. 2500/- per month to Co-PI if handling multiple projects.
- Telephone charges up to Rs. 500 per month as per University's rules out of the department funds may be paid for the duration of the project.

6 TRAVEL

- The PIs/Consultants are permitted to be away on an average of four days per month (not exceeding thirty days in a year) on duty for project work. Prior permission of the Coordinator/Dean, SR & IC in prescribed form must be obtained and sent through the Head of the Department for all such travels.

- The staff member who will be undertaking the travel has to fill up the approval form. PI and Head of Department will have to countersign the form. This may be forwarded to the Coordinator/Dean, SR & IC for approval. Care must be taken by the PI that the total expenditures for travel do not exceed the amount allotted for the purpose.
- International travels under projects can be permitted only with the prior concurrence of the client.
- Short and long abroad visits by the Project Investigators requires a certification of the Coordinator/Dean, SR & IC that they have made alternate arrangements for carrying out the projects/consultancy during their absence. Therefore, the PIs are to take note of the following, before sending the request to Coordinator/Dean, SR & IC.
 - For short leave (30 days to 90 days): When one of the investigators goes on short leave, the other investigator(s) should also give his concurrence in writing that he will be available to carry out the project. If, by chance, all investigators are absent they must get a written concurrence from another faculty member to carry out the project in their absence.
 - For long leave (more than 90 days): Under the normal circumstances, the project investigators should not proceed on long leave without completing the project and submitting the final report to the sponsoring agency.
 - In case there are more than one investigators, the remaining investigator(s) should give their written concurrence that they will carry out the project during the long absence of one of the investigators.
 - However, the long absence of the investigator should have the concurrence of the funding agency. Also, the concurrence of the sponsoring agency should be obtained to nominate any other faculty as an investigator.
 - The client shall meet all the boarding and incidental expenses of the travel undertaken for the work. This should be specified and included in the estimated cost of the project.
 - TA & DA may be reimbursed on presentation of certified bill(s) as per the University norms.
 - Project staff on tour can be reimbursed boarding and lodging expenses, on production of certified bills as per the University norms.

- Project staffs that are posted at site are eligible for site allowance at the rate of 15% of the consolidated pay per month.

7 INDUSTRIAL CONSULTANCY

A consultancy assignment will be taken up when a client, generally, an industry or an institution approaches Eternal University with a specific problem. The consultancy project is evolved through mutual discussion between the client and the consultant. This includes the problem definition, cost, time frame, scope etc. Further, the consultant has to identify the type of consultancy, which he/she has to render and assemble a team of faculty members, if required. Details of each type of consultancy and the kind of benefit that can result from each type to the consultant and client are described in the following sections.

Types of Consultancy

The following four types of consultancy projects will be undertaken by the Eternal University:

- Institutional Consultancy (IC)
- Retainer Consultancy (RC)
- Research Based Industrial Consultancy (RBIC)
- Technical Services (TS)

7.1 Institutional Consultancy (IC)

These are consultancy assignments carried out at the University mainly utilizing the existing facilities, knowledge or expertise of the consultant. There is very little research component in it. Following are the special features of this type of consultancy.

- Facilities of the University can be utilized for the assignments.
- Purchase of materials and employment of staff specifically for the project and travel under the assignment are permitted.
- Availing of external assistance and subcontracting permitted.
- Students can be employed on part time basis.
- Any know-how developed as a part of the consultancy assignment will be the property of the client. Patent if any can be taken jointly with the client.
- Wherever necessary, a Memorandum of Understanding can be signed between the University and the client explicitly stating the terms and conditions for the award

and execution of the project. The University will not give any Bank guarantee or Indemnity Bond for the money received from the clients.

Sharing of Earnings and Distribution

- 15% of the receipts will be taken as overheads (12% will be credited to the University's Corpus Fund and 3% will be credited to the SR & IC Fund).
- Out of the balance available after expenses in the project, 20% will be taken by the Department as Department Fund, 5% to Central Administration, and rest 75% to PI/consultants is to be distributed.

7.2 Retainer Consultancy (RC)

These are the consultancy assignments in which the client seeks the technical advice of the faculty and academic staff of the University. This may be carried out either at the University or at the premises of the client, but no University facility can be utilized. There is no separate format for approval of these assignments. Letter from the client and request for the consultancy will be processed and a letter will be issued to the client. These assignments have the following features:

- Consultancy charges are worked out on equivalent man-day basis.
- Number of days required for the consultancy must be mutually decided by the consultant staff member and the client.

Sharing of Earnings and Distribution

Pattern of distribution of the consultancy charges to the staff is the same as that for the Institutional Consultancy

Overhead charges and distribution of money are same as that of Institutional Consultancy.

7.3 Research Based Industrial Consultancy (RBIC)

These are the consultancy assignments, which have sizeable research content.

These assignments have the following features:

- The project proposals are submitted jointly by the faculty consultant and the client.
- All the central facilities of the University can be utilized for which financial allocations are to be made in the project.
- Equipment purchases are allowed.

Consultancy assignments are often taken up to solve an immediate problem, to verify a specific design, to undertake specialized testing and to design and develop certain

components or structures. Sponsored research is focused on basic sciences or on applied areas where certain fundamental investigations are to be taken up. These sponsored research schemes are long term assignments in highly specialized fields for which the application areas are slowly developing in our country.

Between industrial consultancy and sponsored research, one can identify a number of practical projects, which are of current or immediate relevance to the industries. These may require applied research and development of a continuous nature to bring out results of real benefit to the industries. Such projects need not be focused towards a product but can also be on a general concept or an idea. These problems are not the types suited for normal consultancy and at the same time are difficult to be formulated as a sponsored project to be funded by other agencies. Hence, a scheme to accommodate this class of problems which are of relevance to our industries will be formulated by the Eternal University under the title Research Based Industrial Consultancy. Under this, an industry or a group of industries can jointly sponsor a project of interest to them in an area where they agree to share the know-how generated. The industry will pay a specific sum every year. The project duration will be for a period ranging from six months to three years. It can be extended further, if required. In this approach, emphasis will be on research to widen the knowledge and to develop new avenues for development. Judicious planning can provide excellent benefits to the industries. This could be linked up with technology up gradation, transfer of know-how, foreign collaboration, etc. Such studies could give the industries an insight into the new technologies, which are likely to replace the existing one. By associating their personnel with this scheme there is bound to be specific benefits for the industry in the long run.

Sharing of Earnings and Distribution:

- 15% of the receipts will be taken as overheads (12% will be credited to the University's Corpus Fund and 3% will be credited to the SR & IC Fund).
- Out of the balance available after expenses in the project, 30% will be taken by the Department as Department Fund, 5% to Central Administration, and rest 65% to be distributed to the PI/consultants.

7.4 Technical Services (TS)

These are assignments such as testing of material, calibration of instruments, etc. The rates for different types of tests may be standardized by each department based on the National Laboratories.

Sharing of Earnings and Distribution:

- 20% of the receipts will be taken as overheads (15% will be credited to the University's Corpus Fund and 5% will be credited to the IC & SR Fund).
- Out of the balance available after expenses in the project, 25% will be taken by the Department as Department Fund, 5% to Central Administration, and rest 70% to PI/consultants is to be distributed.

7.5 Administrative Support

The University will provide the same level of administrative support and accounting facilities as for the sponsored research for carrying out the consultancy assignments.

7.6 Progress of Consultancy

Some of the clients may organise review meetings to monitor the progress of the consultancies. Copies of the letters sent to clients about the progress of the project and the minutes of the review meetings, requests made for extension of the consultancies are to be forwarded to SR & IC for record purposes.

7.7 Closure of Consultancy Assignment

The date of prospective closure of the Project is determined as given in the approval form. If the project is to be extended, prior approval of the clients is to be obtained and the sanction obtained from the Coordinator/Dean SR & IC. Consultancy is treated as closed when the final distribution is made.

7.8 Incentives to the Consultants

- There is no ceiling on the amount that can be earned by the consultant, through consultancy assignments.
- Telephone charges up to Rs. 500 per month as per University rules out of the Department Funds may be paid for the duration of the consultancy.
- Expenses towards the visits abroad for presentation of papers/attending conferences in the related area can be met, if such travel is approved by the client and the same is included in the cost of the consultancy.
- Health insurance charges during visits abroad can also be paid from the project.

7.9 Incentives to the Department

The University allots to the department a portion of the consultancy earnings. This amount can be utilized by the Head of the Department for subscription to membership, telephone expenses, expenses related to the travel/visits of its faculty undertaken to promote consultancy or sponsored research activities, submission of proposals etc.

7.10 Distribution

- It is the responsibility of the Project Coordinator to make a proposal for distribution of the amount received in a consultancy project at different stages, based on the quantum of work contributed by the team members.
- Final distribution of the consultancy charges will be made only after closing the project.

8 TECHNOLOGY TRANSFER:

The PIs shall not independently transfer technology either on exclusive or non-exclusive basis to any party without the consent of the IPR owners. Terms and conditions for each of such technology transfer shall be worked out on case to case basis with the approval of the Vice-chancellor.

9 DUTIES AND RESPONSIBILITIES OF THE PRINCIPAL INVESTIGATORS(PI):

- Sponsored Research and Consultancy Projects shall be undertaken only with the prior approval of the Vice-Chancellor. All research proposals shall be routed through the Coordinator with relevant information by the Sponsors.
- It shall be the responsibility of the PI to get the project work completed satisfactorily within the sanctioned grant and duration.
- The PI shall ensure that the head-wise expenditure does not exceed the budgetary allocation. For effective control, periodic (or as and when required) expenditure details shall be made available to PIs by the University.
- The PI shall maintain individual details of equipments purchased out of the project funds for each project. He/She shall send a copy of it to the account section for placing the same before the audit for verification.

2nd One Day Workshop
On

Intellectual Property Rights: Issues and Challenges
(IPRIC-2019)

Faculty Registration Details

Sl. No.	Name	Department	Signature
1	Dr. Sapna Thakur	Agriculture	Sapna
2	Dr. Shweta Thakur	Physics	Shweta
3	Dr. BABITA	Agriculture	Babita
4	Dr. Poojitha Chauhan	Agriculture	Poojitha
5	Dr. Priyanka Thakur	Agriculture	Priyanka
6	Dr. Shanta Kumari	Economics	Shanta
7	Mrs. Gaganpreet Kaur	Economics	GKaur
8	Dr. Gulshana Kumari	Agriculture	Gulshana
9	Dr. Anil Kumar	Chemistry	Anil
10	Mrs. Kamala	Economics	Kamala
11	Dr. Madan Lal	PHYSICS	Madan
12	Manpreet Kaur	Physics	Manpreet
13	Dr. Sushma Sharma	Agriculture	Sushma
14	Hardeep Sharma	Physics	Hardeep
15	Geeta Kumari	Management	Geeta
16	Dr. Kajal Choudhary	Commerce	Kajal
17	Dr. Surjan	Basic Science	Surjan
18	Incenakshi Gupta	Library	Incenakshi
19	Pyan Chand	Library	Pyan
20	Om Prakash Yadav	ETE	Om Prakash
21	Dr. Pandeep K Singh	Botany	Pandeep
22	Simsanjeet Kaur	Zoology	Simsanjeet
23	DR KRITESH VYAS	Biotechnology	Kritesh
24	Dr. Purnesh Sangwan	Biochemistry	Purnesh
25	Satinderjit Kaur Gill	Computer Science	Satinderjit
26	Dr. Mihal Thakur	English	Mihal
27	Gurpreet Kaur	Computer Science	Gurpreet
28	Dr. Karan Singh	Chemistry	Karan
29	Dr. Anshu Singh	Physics	Anshu
30	Abhilesh Sharma	DCIS	Abhilesh
31	Pawan Kumar Dubey	Management	Pawan
32	Dr. Mihani Sharma	FST	Mihani
33	Jyoti Thakur	Eco.	Jyoti
34	Dr. Mahesh Prasad Tripathi	Agri.	M. P. T.



Intellectual Property Rights: Issues and Challenges
(IPRIC-2019)

Faculty Registration Details

Sl. No.	Name	Department	Signature
35	Dr. Gunjan Tiwari	Genetics & Plant Breeding	Gunjan
36	Dr. Vikas K. Ravat	Plant Pathology	Vikas
37	Kuldeep Singh	Tax	Kuldeep
38	Dr. Neelam Thakur	Zoology	Neelam
39	Dr. Neelam Kumari	Psychology	Neelam
40	Mr. Balbinder Singh	Zoology	Balbinder
41	Dr. Yashpal Azad	Psychology	Yashpal
42	Dr. S. Upadhyay	Mathematics	S. Upadhyay
43	PRASHANT THAKUR	PHYSICS	Prashant
44	Dr. Virendra Kumar	Agronomy	Virendra
45	Dr. Trithankar Chakraborty	English	Trithankar
46	Ms. Simranjeet Kaur	Economics	Simranjeet
47	Dr. Suelika	Engineering	Suelika
48	Dr. Jankant S.P.	Edu	Jankant
49	Dr. Shonu Sengupta	CSE	Shonu
50	Dr. Dilip Kumar Shero	ETE	Dilip
51	Dr. Poonam Sharma	Microbiology	Poonam
52	Dr. Shiv Kumar	Food Tech	Shiv
53	Dr. Gajendra Pal Singh	"	Gajendra
54	Dr. Rajni Bhatia	Alkal College of Ed	Rajni
55	Anita Chaudhary	Engg.	Anita
56	Dr. Devendra Kumar Sofiyastava	Dept. of Botany	Devendra
57	Dr. Kishan Kumar	Dept. Food Tech	Kishan
58	Vasanthi Mishra	Alkal College of Ed	Vasanthi
59	Bhuvaneshwar	Asst. Prof. Edu	Bhuvaneshwar
60	Dr. Akshay Singh	Microbiology	Akshay
61	Dr. Manpreet Singh	Chemistry	Manpreet
62	Dr. Anubam Sengupta	Library	Anubam
63	Dr. Vibek Sharma	Botany	Vibek
64	Sandeep Kaur	Physics	Sandeep
65	Suchpreet Kaur	Public Health Admin	Suchpreet
66	Gunji Kaur	"	Gunji
67	Parfa Dhiman	I.T.	Parfa
68	Satabjeet K. Dhalwal	E-Content management	S. K. Dhalwal



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Faculty Registration Details

Sl. No.	Name	Department	Signature
69	KAMAL KISHORE	CHEMISTRY	[Signature]
70	Dr. Panect Me:	Physics	[Signature]
71	Dr. Gurpreet Singh	PSI	[Signature]
72	Dr. Rajinder Kaur	Punjabi	[Signature]
73	Dr. Simranjit Singh	Punjabi	[Signature]
74	Dr. Dhawan Singh	ECE, Engineering	[Signature]
75	Dr. Abhili Thakur	ECE, ACET	[Signature]
76	Leekhande Singh	Maths.	[Signature]
77	Dr. Jyoti K. Cull	Botany	[Signature]
78	Dr. Suman shikha	Biotech.	[Signature]
79	Dr. Rajinder Kaur	Physical Edu	[Signature]
80	Anna Baji (ANNA BAJAJ)	Nursing	[Signature]
81	Ms. SIMARJEET KAUR	Nursing	[Signature]
82			
83			
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Students (PG & PhD) Registration Details

Sl. No.	Name	Course	Department	Signature
1	Kusam Lata Rana	Ph.D. Biotech	Biotech (ACA)	Kusam
2	Ambika Sharma	Ph.D. Biotech	Biotech (ACA)	Ambika
3	Neha Sharma	Ph.D Maths	Basic science	Neha
4	Divyot Kaur	PhD Biotech	Biotech	Divyot
5	Varsha Umashani	MBA	MBA	Varsha
6	Rajveer Kaur	MBA	MBA	Rajveer
7	Pallavi Goyal	MBA	MBA	Pallavi
8	Bableen Kaur	MBA	MBA	Bableen
9	Gurmanpreet Kaur	MBA	MBA	Gurmanpreet
10	Manpreet Kaur	MBA	MBA	Manpreet
11	Shivani Khanna	MBA	MBA	Shivani
12*	Puja Kumari	MBA	MBA	Puja
13	Lakshinder Kaur	M.Sc Horticulture	Agriculture (Hort)	Lakshinder
14	Nishan Dutt	Ph.D. CSE	CSE	Nishan
15	Sumit Sood	Ph.D Chemistry	Chemistry	Sumit
16	Heetika Guleria	M.Sc Biotech	Biotechnology	Heetika
17	Shilpa Kumari	PhD Physics	Physics	Shilpa
18	Preeti	PhD Zoology	Zoology	Preeti
19	Meerakshi Sharma	MSc Chemistry	Chemistry	Meerakshi
20	Shivani Verma	MSc Chemistry	Chemistry	Shivani
21	Kajal Sharma	MSc Chemistry	Chemistry	Kajal
22	Anuja Sharma	M.Sc Zoology	Zoology	Anuja
23	Anchal Sharma	M.Sc. Physics	Physics	Anchal
24	Amanpreet Kaur	"	"	Amanpreet
25	Khushboo Thapa	"	"	Khushboo
26	Pooja Negi	"	"	Pooja
27	Shreya	"	"	Shreya
28	Yogita	"	"	Yogita
29	Kritika	"	"	Kritika
30	Shreya	"	"	Shreya
31	Shreya	M.Sc. Physics	Physics	Shreya
32	Pooja Jaini	PhD	Biotech	Pooja
33	Shivani Thakur	"	"	Shivani
34	Harneet Kaur	"	"	Harneet

WMM
WMM



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Students (PG & PhD) Registration Details

Sl. No.	Name	Course	Department	Signature
35	Priyanka Thakur	(Ph.D) Food Tech	Food Tech.	Priyanka
36	Neha Saini	PhD	Economics & Management	Neha
37	Divya	PhD	Food Tech.	Divya
38	Pratibha	Ph.D	Bio tech	Pratibha
39	Sakshi	M.Sc	Zoology	Sakshi
40	Manisha	M.Sc	Zoology	Manisha
41	Taniya	M.Sc	Zoology	Taniya
42	Rashmi	M.Sc	Zoology	Rashmi
43	Jaspreet	M.Sc	Zoology	Jaspreet
44	Rat Versha Thakur	MSc	Math	Versha
45	Bhrotri Thakur	MSc	Math	Bhrotri
46	Preeti	MSc	Math	Preeti
47	Parninder Kaur	MSc	Food tech	Parninder
48	Richa Sharma	M.Sc. (Chem)	chemistry	Richa Sharma
49	Manvi Kaur Gill	MSc (F.T) 2nd	Food Tech.	Manvi Gill
50	Neha Dadwal	MSc (F.T) Iyr.	Food Tech	Neha
51	Harshita Phougat	Ph.D. Chemistry	Chemistry	Harshita
52	Pooja Kumari	Ph.D. Chemistry	Chemistry	Pooja
53	Jasvir Kaur	MPH	MPH	Jasvir
54	A. Satshi Sharma	MPH	MPH	Satshi
55	Nigay Kumari	MHA	MHA	Nigay
56	Dr. Ageem Pathria	MPH	MPH	Ageem
57	Dr. Nitika Kaurhal	MPH	MPH	Nitika
58	Dr. Pratibha Singh	MPH	MPH	Pratibha
59	Dr. Ketki Sharma	MPH	MPH	Ketki
60	Dr. Aishwarya	MPH	MPH	Aishwarya
61	Dr. Sonali Bohra	MPH	MPH	Sonali
62	Dr. Sancha Chui	MPH	MPH	Sancha
63	Jyoti Kumari	MBA	MBA	Jyoti Kumari
64	Reet	MBA	MBA	Reet
65	Nandita Thakur	PhD Biotech	Biotech	Nandita
66	Puja Kumari	MBA	MBA	Puja
67	Poonam Kumari	M.Sc Zoology	Zoology	Poonam
68	Diksha	M.Sc	Zoology	Diksha

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Students (PG & PhD) Registration Details



Sl. No.	Name	Course	Department	Signature
69	Sumaira Jam	PhD Food Tech	Food Technology	
70	Qurat-ul-eain hyalce	phd Food Tech	Food Tech	
71	Annu	M.Sc. Micro	Microbiology	
72	Amdika	M.Sc. Bot	Botany	
73	Atancy	M.Sc. Bot	Botany	
74	Ruchi Parmar	Botany	M.Sc. Botany	
75	Naveed kaur	MA English	MA English	
76	Anjali	Ph.D. Biochem.	Biochemistry	
77	Ivan Kour	M.Sc. Botany	Botany	
78	Shagun Sharma	Ph.D Botany	Botany	
79	Risha Sharma	MSc Botany	Botany	
80	Shivani Sharma	MSc Botany	Botany	
81	Pekha	M.Sc. Botany	Botany	
82	Gazalpreet	M.Sc. Botany	Botany	
83	Baljeet Singh	Ph.D Econ	Economic	
84	Geetanjali	M.Sc. Nsg	Nursing	
85	Anjna Kumari	M.Sc. Nsg	Nursing	
86	Astha Mahant	M.Sc. Nsg	Nursing	
87	Deepika Thakur	M.Sc. Nsg	Nursing	
88	Diksha	M.Sc. Nsg	Nursing	
89	Reena Saini	M.Sc. Nsg	Nursing	
90	Surman	M.Sc. Nsg	Nursing	
91	Monika	M.Sc. Nsg	Nursing	
92	Indubala	M.Sc. Nsg	Nursing	
93	Manju Rani	B.Sc (Medical)	Basic Science	
94	Prabhjot Kaur	B.Sc (Microbiology)	"	
95	Harpreet	B.Sc (Non-Med.)	"	
96	Tuba Khan	B.Sc (Microbiology)	"	
97	Rimpy Rathore	B.Sc (Math)	"	
98	Kamall Preet Kour	B.Sc Agriculture	Akal college of Agr	
99	Baljit kaur	"	"	
100	Harjinder Kaur	"	"	
101	Riya Sharma	"	"	
102	Neha Bhatia	"	"	

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Students (PG & PhD) Registration Details

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103	Kavita Verma	NSQ Tutor	Pediatric (MSc)	
104	Anjali Devi	B.Sc. Agriculture	AKAL college of Agr.	
105	Ghullwinder Kaur	BSc Agriculture	"	
106	Amandeep Kaur	B.Sc. Agriculture	"	
107	Shivani	"	"	
108	Sarika	"	"	
109	Pallavi Patyal	"	"	
110	Suryat Kaur	"	"	
111	Sheetal Choudhary	"	"	
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Ph. D.				
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	Amritpal Singh	BS19PBA001	/	
	Bharti Thakur	BS19PSMA001	Bharti	Bharti
	ParvinderKaur	BS19PSMA002	Parvinder	Parvinder
	Shivani	BS19PSMA003	/	
	SimranpreetKaur	BS19PSMA004	/	
	Anjali	BS19PSB001	Anjali	Anjali
	JasneetKour	BS19PSB002	JasneetKour	JasneetKour
	Rohita	BS19PSB003	Rohita	Rohita
*	SimranjeetKaur	BS19PSZ001	/	
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	Chandranandani Negi	BS19PSBT001	Chandani	Chandani
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	Tanvir Kaur	BS19PSBT003	TanvirKaur	Tanvir
	HardeepKaur	BS19PAMU001	/	
	Kanchan Sharma	BS19PAEN001	/	
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	Mahakmahajan	BS18PBA001	/	
	Shagun Sharma	BS18PSB001	Shagun	Shagun
	KM. Divya Chauhan	BS17PSFT001	Divya	Divya
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	Geetika Kulkarni	BS19PSBT004	Geetika Kulkarni	Geetika Kulkarni
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	Manvi Kant Gill	BS19PSFT002	Manvi Gill	Manvi Gill
	Archana Naffal	BS19PSFT001	Archana	Archana
	Meena Verma	BS16PSBT002	Meena	Meena

Shilpa Kumari

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Shilpa

Shilpa

Nimani

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Pratibha

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→ Durat-ul-eain
Hyder Sivi

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→ Sumaira Jan

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Shivani Sharma

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Anuja

Anuja



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SHOT ON MI A2
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M. SC. ECONOMICS				
Sl. No.	Name	Registration No.	Signature-1	Signature-1
	Anita Pandwar	BS19MSEC001		
	Kajal Choudhary	BS19MSEC002		
	Manvinder Kaur	BS19MSEC003		
	Manpreet Kaur	BS18MSEC001		
	Monika Kumari	BS18MSEC002		
	Rita Kumari	BS18MSEC003		
	Sheetal	BS18MSEC004		
MBA				
	Kawaljeet Kaur	BS19MB001		
	Sanjana Bhatia	BS19MB002		
	Simran Thakur	BS19MB003		
	Vaishali	BS19MB004		
	Navneet Kaur Dhillon	BS19MB005		
	Divya Bansal	BS18MB001		
	Jyoti Kumari	BS18MB002		
	Reetu	BS18MB003		
	Vani Arora	BS18MB004		
M. SC. CHEMISTRY				
Sl. No.	Name	Registration No.	Signature-1	Signature-1
	Jaswinder Kaur	BS19MSCH001		
	Mehak Panwar	BS19MSCH002		
	Shikha	BS19MSCH003		
	Harpreet Kaur	BS18MSCH001		
	Kajal Sharma	BS18MSCH002		
	Meenakshi Sharma	BS18MSCH004		
	Shiwani Verma	BS18MSCH005		
M. SC. MATHEMATICS				
Sl. No.	Name	Registration No.	Signature-1	Signature-1



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	JaspalKaur	BS19MSMA001	Jaspal kaur	Jaspal kaur
	Monika	BS19MSMA002	Monika	Monika
	Pooja Sharma	BS19MSMA003	Sharma	Sharma
	RamanpreetKaur	BS19MSMA004	Ramanpreet kaur	Ramanpreet kaur
	Vanshika	BS19MSMA005	Vanshika	Vanshika
	Harpreet Kaur	BS18MSMA001	Harpreet	Harpreet
	Priti Sharma	BS18MSMA002	Priti	Priti

M. SC. PHYSICS

Sl. No.	Name	Registration No.	Signature-1	Signature-1
	Anjna Sharma	BS19MSPHY001	Anjna	
	ArzooParveen	BS19MSPHY002	Arzoo	
	DikshaChauhan	BS19MSPHY003	Diksha	Diksha
	ManjotKaur	BS19MSPHY004	Manjot	
	Amanpreet Kaur	BS18MSPHY001	Amanpreet	
	Anchal Sharma	BS18MSPHY002	Anchal	
	Khushboo Thapa	BS18MSPHY003	Khushboo Thapa	Khushboo Thapa
	Pooja	BS18MSPHY004	Pooja	Pooja
	Shailja	BS18MSPHY005	Shailja	Shailja
	Shreya Chauhan	BS18MSPHY006	Shreya	Shreya
	Shristi Chaudhary	BS18MSPHY007	Shristi	Shristi
	Yogita Verma	BS18MSPHY008	Yogita.	
	Kritika	BS18MSPHY009		

M.SC. BOTANY

Sl. No.	Name	Registration No.	Signature-1	Signature-1
	Deepika	BS19MSB001	Deepika	
	Dimple	BS19MSB002	Dimple	
	Kalpna	BS19MSB003	Kalpna	Kalpna
	KaramjeetKaur	BS19MSB004	Kaur	Kaur
	KumariRubal	BS19MSB005		



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	Mamata Thakur	BS19MSB006	Mamata	
	Srishti Chauhan	BS19MSB007	Srishti	Srishti
	Tamanna Poshta	BS19MSB008	Tamanna	
	Alpna Thakur	BS18MSB001	/	
	Ambika	BS18MSB002	/	
	Manisha Kumari	BS18MSB003	Manisha	Manisha
	Priyanka	BS18MSB004	/	
	Shivani	BS18MSB005	Shivani	Shivani
	Pragti Sharma	BS18MSB006	/	

M.SC. ZOOLOGY

Sl. No.	Name	Registration No.	Signature-1	Signature-1
	Anjali Sharma	BS19MSZ001	Anjali Sharma	
	Kumari Anju	BS19MSZ002	/	
	Monika Kaushal	BS19MSZ003	Kaushal	Kaushal
	Monika Sharma	BS19MSZ004	Sharma	
	Nisha Devi	BS19MSZ005	Nisha	
	Nitika Sharma	BS19MSZ006	Sharma	
	Priyanka Gazta	BS19MSZ007	Priyanka	
	Shabnam Samra	BS19MSZ008	/	
	Shivani	BS19MSZ009	/	
	Surbhi Dhanotia	BS19MSZ010	Surbhi	
	Surbhi Sharma	BS19MSZ011	Surbhi Sharma	Surbhi Sharma
	Jaspreet Kaur Brar	BS18MSZ001	/	
	Manisha	BS18MSZ002	/	
	Rashi Rattan	BS18MSZ003	/	
	Sakshi Sharma	BS18MSZ004	/	
	Taniya Chauhan	BS18MSZ005	/	

M. SC. MICROBIOLOGY

Sl. No.	Name	Registration No.	Signature-1	Signature-1
	Shilipreet Kour	BS19MSMB001	Shilip	Shilip

M. SC. FOOD TECH



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Sl. No.	Name	Registration No.	Signature-1	Signature-1
	Kirti Sharma	BS19MSFT001		
	PriyaNegi	BS19MSFT002		
	Parminder Kaur	BS18MSFT001		
	Prachi Vishnoi	BS18MSFT002		
M. SC. PLANT PATHOLOGY				
Sl. No.	Name	Registration No.	Signature-1	Signature-1
	Aarti Sharma	BS19MSPP001	/	
	Arushi Sharma	BS19MSPP002		
	Poonam Thakur	BS19MSPP003	/	
	Bhupendra Devi	BS18MSPP001	/	
	Sujata Walia	BS18MSPP002	/	
M. SC. HORTICULTURE				
Sl. No.	Name	Registration No.	Signature-1	Signature-1
	Alisha Sharma	BS19MSHC001		
	Divyakshi	BS19MSHC002	/	
	MamtaPathania	BS19MSHC003		
	Priya Thakur	BS19MSHC004		
	Ruksana	BS19MSHC005		
	Anjali Thakur	BS18MSHC001	/	
	Lakhwinder Kaur	BS18MSHC002	/	
	Mandeep Kaur	BS18MSHC003	/	
M. SC. GENETICS & PLANT BREEDING				
Sl. No.	Name	Registration No.	Signature-1	Signature-1
	ArchitaTandon	BS19MSGPB001	/	
	Ms. SumanKumari	BS19MSGPB002	/	
	SakshiKoundal	BS19MSGPB003		
	TrishnaKumari	BS19MSGPB004		
	Prabhjot Kaur	BS18MSGPB001		
	Ramandeep Kaur	BS18MSGPB002		
M. SC. AGRONOMY				



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	Bhagya Lakshmi	BS19MSAGN001	Bhagya Lakshmi	Bhagya Lakshmi
	Jyoti	BS19MSAGN002	/	
	Kiran Devi	BS19MSAGN003	Kiran Devi	
	Narvada	BS19MSAGN004	Narvada	
	Ruchika Thakur	BS19MSAGN005	Ruchika	Ruchika
	SujataKumari	BS19MSAGN006	/	
	Sweta	BS19MSAGN007	/	
	Tanvi	BS19MSAGN008	Tanvi	Tanvi
	Bhanu Priya	BS18MSAGN001	/	
	Himachali	BS18MSAGN002	Himachali	
	Lalita Kumari	BS18MSAGN003	/	
	Ms. Anisha Mathur	BS18MSAGN004	/	
MA PUNJABI				
Sl. No.	Name	Registration No.	Signature-1	Signature-1
	GurpreetKaur	BS19MAPBI001	/	
	JaspreetKaur	BS19MAPBI002	/	
	Rajrani	BS19MAPBI003	/	
	RamanjeetKaur	BS19MAPBI004	/	
	SukhpreetKaur	BS19MAPBI005	/	
MA ENGLISH				
Sl. No.	Name	Registration No.	Signature-1	Signature-1
	HarjinderKaur	BS19MAEN001	/	/
	HarpreetKaur	BS19MAEN002	Harpreetkaur	Harpreetkaur
MA MUSIC				
Sl. No.	Name	Registration No.	Signature-1	Signature-1
	HarpreetKaur	BS19MAMU001	/	
	KomaljitKaur	BS19MAMU002	/	
	ParmjeetKaur	BS19MAMU003	/	
	RajbirKaur	BS19MAMU004	/	
M. SC. PSYCHOLOGY				



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Sl. No.	Name	Registration No.	Signature-1	Signature-1
	HarmanjitKaur	BS19MSPSY001	/	
	Komal Rani	BS19MSPSY002		
	NavjotKaur	BS19MSPSY003		
	PragyaJaswal	BS19MSPSY004		
	SandeepKaur	BS19MSPSY005		
	SheetalKumari	BS19MSPSY006		
	ShefaliThapa	BS19MSPSY007		
	SumanpreetKaur	BS19MSPSY008		
MPH				
Sl. No.	Name	Registration No.	Signature-1	Signature-1
	Deepika Rani	BS19MPH001	<u>Deepika</u>	<u>Deepika</u>
	KambleSwaranMadhukar	BS19MPH002	<u>Swaran</u>	<u>Swaran</u>
	PavitKaur	BS19MPH003	<u>Pavit</u>	<u>Pavit</u>
	Rajni	BS19MPH004	<u>Rajni</u>	<u>Rajni</u>
	RinshulSaroch	BS19MPH005	<u>Rinshul</u>	<u>Rinshul</u>
	Agrim Pathania	BS18MPH001	<u>Agrim Pathania</u>	<u>Agrim Pathania</u>
	Aishwarya	BS18MPH002	<u>Aishwarya</u>	<u>Aishwarya</u>
	Aparna Richariya	BS18MPH003	<u>Aparna</u>	<u>Aparna</u>
	Jasvir Kaur	BS18MPH004	<u>Jasvir</u>	<u>Jasvir</u>
	Ketki Sharma	BS18MPH006	<u>Ketki</u>	<u>Ketki</u>
	Komal Preet	BS18MPH007	—	—
	Nitika Kaushal	BS18MPH008	<u>Nitika</u>	<u>Nitika</u>
	Pratibha Singh	BS18MPH009	<u>Pratibha</u>	<u>Pratibha</u>
	Sakshi Sharma	BS18MPH010	<u>Sakshi</u>	<u>Sakshi</u>
	Sanchi Ohri	BS18MPH011	<u>Sanchi</u>	<u>Sanchi</u>
	Ratinder Kaur	BS18MPH012	<u>Ratinder</u>	—
	Sonali Vohra	BS18MPH013	<u>Sonali</u>	<u>Sonali</u>
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	Vijay Kumari	BS18MHA006	<u>Vijay</u>	<u>Vijay</u>
	Anad	BS18MHA001	<u>Anad</u>	<u>Anad</u>
	Manisha	BS18MHA004	<u>Manisha</u>	<u>Manisha</u>



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Students Registration



NATIONAL APTC CHAIR



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	Saman Thakur	BS18PSBT007		
	Harnet Kaur	BS18PSBT002		
	Samiksha	BS19PS2003		
	Tanvir Kaur	BS19PSBT003		
	Chandranandani Negi	BS19PSBT001		
	Preety	BS18PZ001		
	Simeban	BS19PS2001		
	Divyot Kaur	BS15PSBT002		
	Jaspal Kaur	BS19MSMA001		
	Pooja Sharma	BS19MSMA003		
	Mehak Panwar	BS19MSCH002		
	Ramanpreet Kaur	BS19MSMA004		
	Monika Kausal	BS19MSZ0003		
	Neha Duttar	BS17PTCS001		

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3-27-2021 9:15:31	aditi@eternaluniversity.edu.in	Er.	Aditi Thakur	Faculty	Eternal University	ETE	8219340710
3-27-2021 11:53:14	ajar@eternaluniversity.edu.in	Dr.	Ajar Nath Yadav	Faculty	Biotechnology		
3-27-2021 12:18:02	gauniambika559@gmail.com	Mr.	Ambika chauhan	Research	Eternal university	Biotechnology	9805547198
3-26-2021 19:36:23	amit@eternaluniversity.edu.in	Mr.	Amit Kumar	Faculty	Eternal University	Akal College of Economics, Commerce & Management	9857227675
3-27-2021 11:49:10	amit@eternaluniversity.edu.in	Mr.	Amit Kumar	Faculty	Akal College of Economics, Commerce & Management		
3-27-2021 9:36:05	amit.luckyfriends@gmail.com	Er.	Amit Sharma	Faculty	Eternal University Baru Sahib	Computer Science & Engineering	9418937790
3-27-2021 11:20:40	anilthakur82@gmail.com	Dr.	ANIL KUMAR	Faculty	Chemistry		
3-27-2021 11:20:01	anjaliithakur.bot@gmail.com	Ms.	Anjali Samiksha	Research	Botany		
3-26-2021 11:00:21	parianjali890@gmail.com	Ms.	ANJALI SHARMA	Student	Eternal university baru sahib	akal college of basic sciences	8837579051
3-27-2021 9:53:51	bhardwajanju907@gmail.com	Ms.	Anjna sharma	Student	Eternal university baru sahib	Physics	8091709562
3-26-2021 11:21:12	anjelbharti929@gmail.com	Ms.	Anju bharti Samiksha	Student	Eternal University	M.sc zoology	8626033341
3-26-2021 15:33:00	anujasharma917@gmail.com	Ms.	Anuja sharma Samiksha	Research	Eternal University Baru sahib	Department of Zoology	7876217629
3-27-2021 13:00:33	anurakshee@lingayasvidyapeeth.edu.in	Dr.	Anurakshee Verma	Faculty	Chemistry		
3-27-2021 11:46:37	arzoomalik159@gmail.com	Ms.	Arzoo Parveen	PG Studen	Physics		
3-27-2021 11:36:00	ayushisharma920920@gmail.com	Ms.	Ayushi Sharma	Student	Eternal University	Physics	9805459920
3-26-2021 11:03:41	balbinderzoolgy@eternaluniversity.edu.in	Mr.	Balbinder Singh Samiksha	Faculty	Eternal University, Baru Sahib	Zoology	8218061192
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3-27-2021 13:38:19	bharti455@gmail.com	Ms.	Bharti Thakur	Research	Eternal University	Maths	7018701608
3-27-2021 12:17:27	drbinaymaths@gmail.com	Dr.	Binay Kumar	Faculty	Mathematics		
3-26-2021 19:36:00	chamanlal1975@gmail.com	Mr.	Chamam Lal	Faculty	Eternal University	Engineering	9816400624
3-25-2021 21:07:38	nandaninegi21@gmail.com	Ms.	Chandranandani Negi	Research	Eternal University	Genetics Plant Breeding & Biotechnology	7906845860
3-26-2021 19:51:02	chhayafat@eternaluniversity.edu.in	Ms.	CHHAYA	Faculty	Eternal University, Baru Sahib	Food Technology	8601789518
3-25-2021 17:42:56	dsuyal@eternaluniversity.edu.in	Dr.	Deep Chandra Suyal	Faculty	Eternal University	Microbiology	8941838862
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3-27-2021 11:29:35	dhananjay@fzu.cz	Dr.	Dhananjay K. Sharma	Faculty	Institute of Physics of Czech Academy of Sciences		
3-27-2021 10:53:24	kaurkhalsa3052@gmail.com	Ms.	Dhanminder kaur	Staff	Eternal University, Baru sahib	Department of music	8580429941
3-27-2021 9:51:26	cdiksha1998@gmail.com	Ms.	Diksha Chauhan	Student	Eternal University Baru sahib	Physics	7018550484
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3-26-2021 18:56:01	kourdivjot@gmail.com	Dr.	Divjot Kour	Faculty	Eternal University	Biotechnology	9882543479
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3-25-2021 19:36:04	azadyashpsy@gmail.com	Dr.	Dr Yashpal Azad	Faculty	Eternal University	Psychology	7018909678
3-27-2021 9:44:03	dhawan.singh@chitkara.edu.in	Dr.	Dr. Dhawan Singh	Faculty	Chitkara University	Chitkara College of Applied Engineering	7018743963
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3-25-2021 18:30:52	neeraj@eternaluniversity.edu.in	Dr.	Dr. Neeraj Kumar Vasistha	Faculty	Eternal University, Baru Sahib	Genetics-Plant Breeding and Biotechnology	9453312174
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3-27-2021 12:14:01	drsujanmath@eternaluniversity.edu.in	Dr.	Dr. Surjan Singh	Faculty	Eternal University Baru Sahib	Mathematics	8580806098
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3-26-2021 9:31:59	garima.354@gmail.com	Dr.	Garima kumari	Faculty	Eternal university	GPB&B	9418944254
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 Chemistry and Biochemistry 9895789191 *du*
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 Physics 9805577857
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 Computer science 9996015285
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Online Workshop on Importance of Intellectual Property Rights in Academia



Saturday the 27th March 2021



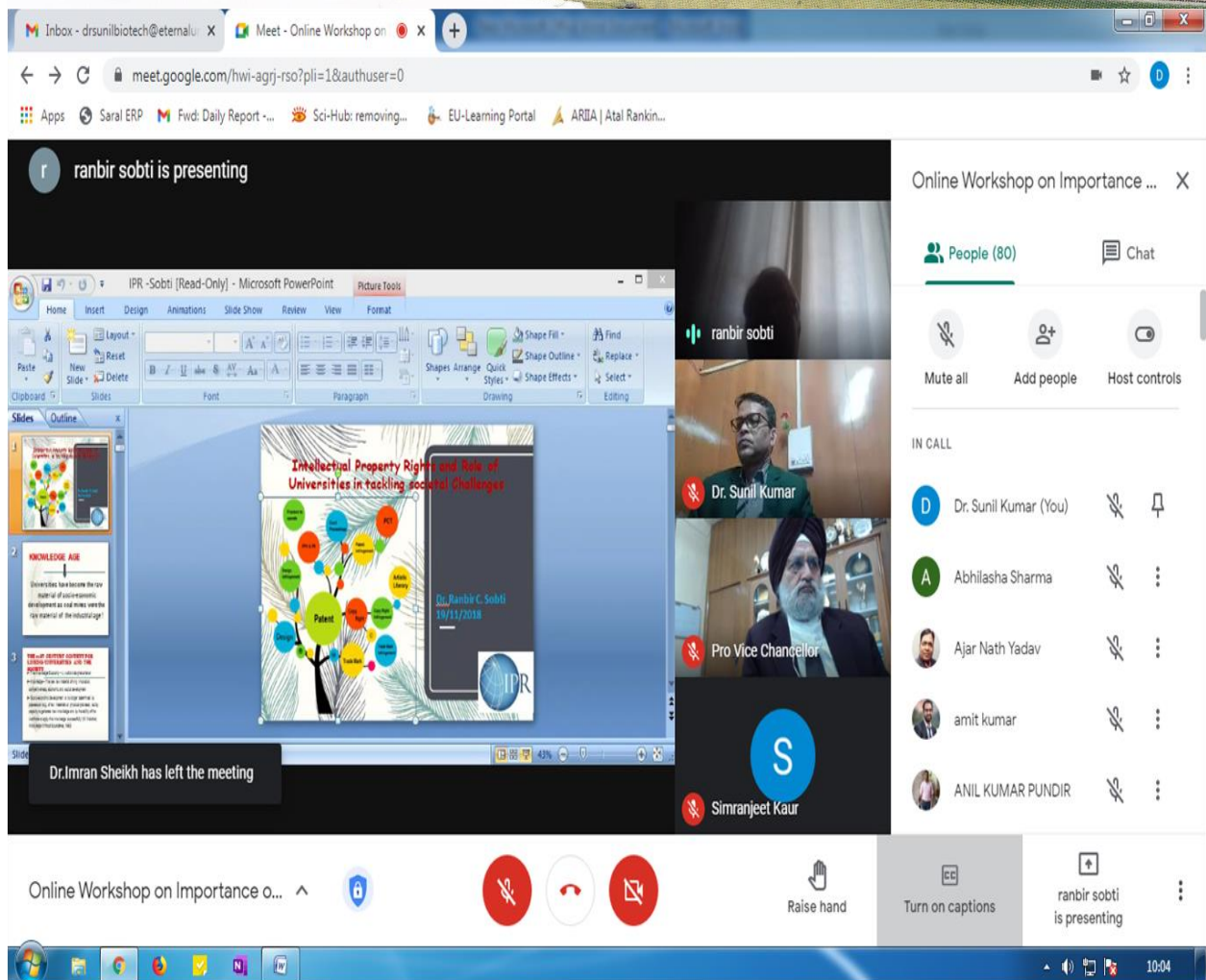
Workshop on Importance of Intellectual Property Rights in Academia

Written Content (Minimum 100 Words) * A online workshop on “Importance of Intellectual Property Rights in Academia -2021” was organised by IPR Cell, Eternal University, Baru Sahib in association with Himachal Pradesh Patent Information centre (HPPIC), Shimla on 27th March, 2021 through online mode. The coordinator of the workshop was Dr. Sunil Kumar, Assistant Professor, Eternal University, Baru Sahib.

The workshop is organised through two session including inaugural, valedictory and two technical session. More than 170 participants from various colleges of Eternal University and other university which includes faculty members, research scholars and postgraduate students were participated. In this workshop, four experts in various fields of IPR were invited as invited speakers to share their long experiences and valuable thoughts with the participants. In inaugural session, Prof. Amrik Singh Ahluwalia, Honorable Pro-Vice Chancellor, Eternal University, Baru Sahib welcomes all the delegates, speakers and participants from various universities and introduced the invited speakers to all audience. The inaugural lecture was delivered by Honourable Chief Guest, Padma Shri Prof. R. C. SOBTI, Former Vice Chancellor, Punjab University, Chandigarh and Former Vice Chancellor, Bhimrao Ambedkar University, Lucknow. During this inaugural lecture, Prof. Sobti discussed various form of IPR and its importance in academia. He also aware and encourage participants for patent filing for their invention. The technical session 1 comprised of two lectures. The first lecture was delivered by Dr. Divya caushik, Scientist, Patent Information Centre and Technology Information Centre, Punjab State Council for Science and Technology, Chandigarh. Dr. Kaushik aware all the participants about forms of IPR, patentable and non-patantable invention. She also detailed about procedure for patent filing to all the participants. The second lecture of the same session was Dr. Lipi, Patent attorney, Indian Trademark and Design Attorney (Partner of Akhildev IPR and Research Services) aware all the participants about patent filing procedure in India as well as other country. She discussed about various application system for patent filing including PCT. In this lecture, participants learnt how to go for e-filing.

In second technical session, considering the importance of IPR an overview/introduction of different kind of intellectual property rights, this session was started with the invited talk on “Overview of IPR and geographical Indication” by Dr. Sashi Dhar, HIMCOSTE, Shimla. He significantly explained all the components of IPR especially emphasised on geographical indication of Himachal Pradesh. He also detailed about the GIs like BharmourRajmah, Karsogkulthi, Chamba metal craft, PangikiThangi

(Hazelnut), Chambachukh registered during 2020-21. To provide more insight in to this matter, Ms. Kompal Bansal, Director, BANSAL IP ASSOCIATES presented lecture on “Disclosing Your Invention Precautions and Pitfalls”. The presentation was quite informative and interactive. It has created huge interest among participants with various related quaries were raised and satisfied. The valedictory session was chaired by Prof. Amrik Singh Ahluwalia, Hon’able Pro-Vice Chancellor, Eternal University, Baru Sahib. His concluding remarks encouraged and energise all the participants.



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Online Workshop on Importance ... X

People (58) Chat

Dr. Sunil Kumar (You) Abhilasha Sharma ANIL KUMAR PUNDIR Anjali Thakur Ayushi Sharma Deepika Thakur Dimple Chauhan Dipika Nanda

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Online Workshop on Importance o... Raise hand Turn on captions Present now

13:35

सिरमौर

दिव्य हिमाचल epaper.divyhimachal.com

शिमला, शुक्रवार, 2 अप्रैल, 2021

पेटेंट व गैर-पेटेंट योग्य आविष्कारों पर प्रकाश

इंटरनल यूनिवर्सिटी बडू साहिब में कार्यशाला, विभिन्न कालेजों के 140 से अधिक प्रतिभागियों में संकाय सदस्य, अनुसंधान विद्वान व छात्र हुए शामिल

राजेश कमल-राजगढ़

प्रदेश पेटेंट सूचना केंद्र (एचपीपीआईसी) शिमला के सहयोग से आईपीआर सेल द्वारा इंटरनल विश्वविद्यालय बडू साहिब में अकादमिक बौद्धिक संपदा अधिकारों का महत्व पर एक ऑनलाइन कार्यशाला का आयोजन किया गया। कार्यशाला के समन्वयक डा. सुनील कुमार, सहायक प्रो. इंटरनल यूनिवर्सिटी बडू साहिब थे। कार्यशाला का आयोजन दो सत्रों के माध्यम से किया गया, जिसमें उदघाटन, विदाई भाषण संबन्धी और दो तकनीकी सत्र शामिल हैं। इस कार्यशाला में इंटरनल यूनिवर्सिटी के विभिन्न कालेजों के 140 से अधिक प्रतिभागियों में संकाय सदस्य, अनुसंधान विद्वान और छात्रकोटर छात्र शामिल थे। इस प्रतिभागियों के साथ अपने लंबे अनुभवों और मूल्यवान विचारों को सांझा करने के लिए आमंत्रित किए गए।

वक्ताओं के रूप में आमंत्रित किया गया था। उदघाटन सत्र में इंटरनल यूनिवर्सिटी बडू साहिब के सहायक वाइस चांसलर प्रो. अमरीक सिंह अहलवालिया और उदघाटन भाषण मुख्यातिथि पदधारी प्रो. आरसी सोबती पूर्व कुलपति पंचाब विश्वविद्यालय चंडीगढ़ और पूर्व कुलपति भीमराव अंबेडकर यूनिवर्सिटी लखनऊ द्वारा दिया गया। इस उदघाटन व्याख्यान के दौरान प्रो. सोबती ने आईपीआर के विभिन्न रूपों और शिखा में इसके महत्व पर चर्चा की। तकनीकी सत्र एक में दो व्याख्यान शामिल थे।

पहला व्याख्यान डा. दिव्या कौशिक, वैज्ञानिक, पेटेंट सूचना केंद्र और प्रौद्योगिकी सूचना केंद्र, पंचाब स्टेट कार्डिसल फॉर साइंस एंड टेक्नोलॉजी चंडीगढ़ द्वारा प्रस्तुत किया गया। डा. कौशिक ने सभी प्रतिभागियों को आईपीआर, पेटेंट योग्य और गैर-पेटेंट योग्य आविष्कार के रूपों के बारे में बताया। डा. लिपि पेटेंट अर्टनी भारतीय ट्रेडमार्क और डिजाइन अर्टनी (अखिलदेव आईपीआर और रिसर्च सर्विसिंग के साथी) ने भारत के साथ-साथ अन्य देश में पेटेंट दाखिल करने की प्रक्रिया के बारे में सभी प्रतिभागियों को जानकारी प्रदान करने के लिए अवागत कराया। दूसरे तकनीकी सत्र में आईपीआर के महत्व को आईपी एसोसिएट्स ने अपने नवाचार का खुलासा करने के लिए संपदा अधिकारों के अवलोकन, व्याख्यान प्रस्तुत किया। प्रस्तुति परिचय के साथ इस सत्र की शुरुआत शशीधर हिमकोसटी शिमला द्वारा आईपीआर और भौगोलिक संकेत के अवलोकन पर आमंत्रित बातचीत के साथ की गई। उन्होंने आईपीआर के सभी घटकों को विशेष रूप से व्याख्या की। अश्वक्ता प्रो. अमरीक सिंह अहलवालिया प्रो. वाइस चांसलर इंटरनल यूनिवर्सिटी बडू साहिब ने प्रतिभागियों को प्रोत्साहित किया। (एचडीएम)

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(21) Application No.202011051235 A

(22) Date of filing of Application :25/11/2020

(43) Publication Date : 27/05/2022

(54) Title of the invention : IMPROVED PROCESS FOR THE SYNTHESIS OF ELECTROSPUN PURE ZNO NANOFIBERS AT LOW TEMPERATURE

(51) International classification :D01D0005000000,
H01M0010052000,
C01G0009020000,
D04H0001728000,
B82Y0030000000

(31) Priority Document No :NA
(32) Priority Date :NA
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(86) International Application No :NA
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(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
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Filing Date :NA

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2)KAUR MANPREET

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(57) Abstract :

The present invention discloses an improved and simple process for the synthesis of pure ultra-thin ZnO nanofibres involving electrospinning method. The mixing of two solutions of PVA and Zinc acetate was performed for 3-4 hours at 70 °C till the complete solubility. The obtained fiber-mesh was annealed to obtain pure ZnO nanofibers at 400 °C and 500 °C for 3 hours at constant heat flow. Rietveld refinement of XRD pattern confirms the hexagonal wurtzite structure (with space group = P63mc) of ZnO nanofibers and the sharp and well-defined diffraction peaks confirm that ZnO nanofibers have pure crystalline phase. SEM images reveal that the ZnO nanofibers have an average diameter of 315-292 nm.

No. of Pages : 20 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111025665 A

(19) INDIA

(22) Date of filing of Application :09/06/2021

(43) Publication Date : 17/03/2023

(54) Title of the invention : ANTI CANCER AND ANTI DIABETIC SYNERGISTIC COMPOSITION OF RASONT FROM BERBERIS SPECIES AND PROCESS THEREOF

(51) International classification	:A61K0036290000, A01H0005120000, C09B0061000000, C07C0403240000, B01D0053140000	(71)Name of Applicant : 1)ETERNAL UNIVERSITY Address of Applicant :VIA- RAJGARH, DISTT- SIRMOUR, BARU SAHIB, HIMACHAL PRADESH-173101, INDIA CONTACT: 01799-276012 EMAIL: contact@eternaluniversity.edu.in Himachal Pradesh India
(31) Priority Document No	:NA	2)NATIONAL MEDICINAL PLANTS BOARD (NMPB)
(32) Priority Date	:NA	(72)Name of Inventor :
(33) Name of priority country	:NA	1)SHARMA DR. VIVEK
(86) International Application No	:NA	2)SINGH DR. HARCHARAN DHALIWAL
Filing Date	:NA	3)SHARMA SHAGUN
(87) International Publication No	: NA	
(61) Patent of Addition to Application	:NA	
Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention discloses an anti-cancer, anti-diabetic synergistic composition of "Rasont" from five species of Genus Berberis. This formulation is having anti-cancerous and anti-diabetic activity. The process and method used in the preparation of present formulation is quite simple and economic. Yield of Rasont is also quite high as compared to previous processes used for Rasont preparation. The process uses five species of genus Berberis i.e., Berberis aristata, Berberis chitria, Berberis vulgaris, Berberis lycium and Berberis pseudoumbellata. The process used in present invention is economic as no complex solvents are being used for the extraction and formulation, also the process is quite hygienic as compared to already existing methods.

No. of Pages : 26 No. of Claims : 2



सत्यमेव जयते

Application Details

APPLICATION NUMBER	202311001021
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	05/01/2023
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TITLE OF INVENTION	A LIQUID BIODEGRADABLE FERTILIZER MATERIAL MADE OF BIOLOGICAL COMPONENTS
FIELD OF INVENTION	CHEMICAL
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ADDITIONAL-EMAIL (As Per Record)	manishaphaugat@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--

FORM 2

The Patent Act 1970

(39 of 1970)

&

The Patent Rules, 2005

COMPLETE SPECIFICATION

(SEE SECTION 10 AND RULE 13)

TITLE OF THE INVENTION

“A liquid biodegradable fertilizer material made of biological components”

APPLICANTS:

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The following complete specification particularly describes and ascertains the nature of this invention and the manner in which it is to be performed: -

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Field of the Invention

The invention relates to a biodegradable fertilizer formulations, as well as techniques for creating and applying them. The fertilizer mixes, in particular, contain biodegradable nutrient transporters.

Background of the invention

Agriculture and backyard gardening are increasingly using biodegradable fertilizers. According to the science, biodegradable fertilizers are those made from leftover plant and animal parts as well as from naturally occurring minerals. Both solid and liquid biodegradable fertilizers are available.

As a result, synthetic fertilizers are losing favor in the eyes of the environment. For purposes of sustainability, synthetic fertilizers should be replaced. In example, there is potential to use less energy in the manufacture of synthetic fertilizers. Additionally, there is a desire to switch out some of the synthetic fertilizer elements with naturally occurring, biodegradable ones.

As a result, one of the claimed invention's goals is to supply nitrogen for fertilizer that is derived from a natural source.

The claimed invention furthermore aims to deliver a fertilizer with a natural composition that is both biodegradable and manufactured with ecologically friendly energy.

The provision of an alternative to the current supplies of nitrogen and fertilizer is yet another goal of the idea.

Nitrogen is a crucial component of fertilizers. Both manufactured and natural sources of nitrogen are available. Manure is the most popular natural source of nitrogen for fertilizers. This is disliked for a variety of reasons, including as sanitary and aesthetic concerns, as well as challenges with getting and delivering sufficient quantities of nitrogen that is available to plants. Other natural sources exist, such as fish emulsion, but they cannot be scaled up to a large enough scale for use in commercial applications. Because of this, synthetic fertilizers using synthetic nitrogen are more widespread. The Haber-Bosch reaction is the most used way to produce synthetic nitrogen for fertilizer. Unfortunately, the Haber-Bosh reaction consumes a lot of energy and is therefore not recommended due to environmental concerns.

Typically prepared from water extracts of fish or animal waste, liquid fertilizers frequently include seaweed, which is thought to be a source of plant hormones and trace nutrients. Those created from plant waste are referred to as "compost tea." The fermentation byproducts of composts called compost teas. Normally, compost is submerged in water for up to one week to allow the mixture to ferment. A variety of bacteria found in compost tea are thought to enhance soil health and control plant diseases. However, the nutritional content of these

products is quite low, and the precise make-up of the finished product depends on a wide range of factors, including the substrate for the compost, the temperature and time of the fermentation, and so on.

US20160102024A1 describes a fertilizer composition containing naturally derived, bio-renewable nitrogen content, methods of preparing the compositions, and methods of using the compositions. The fertilizer compositions contain a nutrient carrier and a biodegradable stabilizer. Preferably, the nutrient carrier is between about 30 wt. % and about 95 wt. % of the fertilizer composition and the biodegradable stabilizer is between about 10 wt. % and about 65 wt. % of the fertilizer composition. Preferably the fertilizer has at least 3 wt. % nitrogen content.

WO2008074062A1 describes an organic fertilizer composition and a system for producing a nutrient solution prepared from the composition. In particular the present invention is directed towards a fertilizer preparation system for use with plants that require very little fertilizer or are sensitive to inorganic fertilizers such as indoor plants, bonzi and seedlings.

All biodegradable fertilizers made from plants or animals have an unfavorable odor, which is a recognized drawback. Because of this, they are particularly unsightly in household gardens and are not recommended for usage indoors. There have been initiatives to offer pelletized, deodorized biodegradable fertilizers. In actual use, the pellets retain their original odor and/or develop an unpleasant odor over time when exposed to moisture or in humid environments.

The purpose of the current innovation is to provide a biodegradable fertilizer that can at least partially overcome the aforementioned drawbacks or offer the general public a practical or profitable option.

Summary

The nitrogen in fertilizer compositions that are naturally derived and bio-renewable, as well as the processes for making them and applying them, are all part of the current innovation. The fertilizer compositions include a biodegradable stabilizer and a nutrient carrier. Biodegradable stabilizer is also included in the fertilizer mixes. Biological components comprising 20 to 40 wt. % of a protein adhesive, 2 to 15 wt. % of at least one hygroscopic mineral, 10 to 55 wt.% of water, 0 to 50 wt.% of an additive component, 10 to 20 % mixing a wood vinegar solution, and a nitric acid solution and a phosphorous acid solution at a volume ratio of 1: 0.4 to 1: 0.8 to prepare an acidic mixture are provided in the material. The biodegradable stabilizer should make-up between about 20 and 65 wt.% of the fertilizer composition, and the nutrient carrier

should be in the range of 30 to 65 wt.% . The fertilizer should ideally contain at least 3-5 wt.% nitrogen.

Detailed Description

The embodiments of this invention can indeed be applied to a variety of soil types and fertilizer application techniques that are known to competent artisans and can vary.

The compositions include a carrier for biorenewable nutrients. The compositions can use a wide variety of bio-based nutrition carriers. A nitrogen content of between 3 and about 15 wt.% , preferably between 6 and 13 wt.% , and even more preferably between 8 and 10 wt.% , characterizes particularly appropriate nutrition transporters. The nutrient carrier is preferably made of bioplastic, biocomposite, and/or algae.

Particularly suitable nutrient transporter include algae, carbohydrates, such as glyceride, starches, fats, oils, and polysaccharides; distillers grains, including both wet distillers grains and dried distillers grains with solubles; soy-based carriers such as soy oil (SO), soy flour (SF), soy polymer (SP), soy polymer with adipic anhydride plasticizer (SPA), or soy protein; proteins, such as casein, zein S11, zein S12, and other proteins; fibers, such as paper fiber, coir fiber, peat fiber, and wood fiber; clay; biopolymers such as lignins and cellulose; stover, including, but not limited to, stover from corn, sorghum, and soybeans; and other suitable organic nutrient carriers.

The nutrient carrier is often a soy-based polymer containing soy protein. Without the use of synthetic fertilisers, the soy acts as an environmentally beneficial fertilizer by supplying natural nitrogen. With regard to reduced energy usage during fertilizer manufacture and by substituting synthetic material with naturally produced bio-renewable elements, the developed soy-based formulations offer a significant improvement in sustainability.

A soy-based polymer and algae are both present in the compositions in a preferred embodiment. Algae occur in fresh water, usually attached to submerged rocks and wood or as scum on stagnant water is the major source. A good natural source of phosphorus can be found in algae, which is advantageous for particular fertilizer compositions.

The nutrient carrier content of the fertilizer compositions should be between 40 wt.% and 80 wt.% , more preferably between 45 wt.% and 70 wt.% , and most preferably between 50 wt.% and 65 wt.% .

The other aspect of the invention that a liquid biodegradable fertilizer material comprises, 20 to 40% by weight of soy protein adhesive of at least one protein. Further, the degradable material comprises from 2 to 15 wt.% of at least one hygroscopic mineral, 10 to 55

wt.% of water, 0 to 50 wt.% of an additive component, 10 to 20 % mixing a wood vinegar solution, and a nitric acid solution and a phosphorous acid solution at a volume ratio of 1: 0.4 to 1: 0.8 to prepare an acidic mixture are provided in the material.

In addition, there should be between 2 and 15 weight percent of hygroscopic minerals, preferably between 4 and 11 weight percent, and even more preferably between 8 and 10 weight percent, as well as between 10 and 55 weight percent of water, preferably between 20 and 50 weight percent, and even more preferably between 40 and 45 weight percent, in degradable material.

The material may also contain an added component in a weight range of 0 to 50%, preferably between 15 and 45%, and even more preferably between 25 and 35%. The substance need not always contain the additional component. Without the use of an additional component, the inventive material resolves the technical issue indicated above.

Further aspect of the invention is to add Biodegradable Stabilizer in the composition. The stabilizer in the fertilizer mix is a biodegradable polymer. In some instances, the biodegradable stabilizer may obtain from nature. Polymer may be select from; Polysaccharides, cellulose, polylactic acid (PLA), polyhydroxyalkanoate (PHA), polyurethane (PUR), polyethylene glycol (PEG), and polyamide are examples of biodegradable high-carbon polymers that are suitable (PAM). There may also be use of additional bio-based, biodegradable high-carbon polymers. PAM and PUR are produced from castor oil and pine oil, respectively, in preferred embodiments.

When a stabilizer is present in fertilizer compositions, the fertilizer should comprise between 20 and 65 weight percent of biodegradable stabilizer, more preferably between 25 and 55 weight percent, and least preferably between 30 and 45 weight percent.

Example 1: Liquid biodegradable fertilizer material comprises i) 30% wt. protein adhesive, ii) 12% wt. hygroscopic mineral, iii) 10% wt. additive component, iv) 15 % wt. mixing a wood vinegar solution v) soya based algae, vi) 30% wt. water etc.

Example 2: Liquid biodegradable fertilizer material comprises i) 33% wt. protein adhesive, ii) 15% wt. hygroscopic mineral, iii) 8% wt. additive component, iv) 12 % wt. mixing a wood vinegar solution v) soya based algae, vi) 25% wt. water, vii) 25 and 55 weight percent high-carbon polamide based biodegradable stabilizer etc.

Table 1: Fertilizer compositions

Ingredient	First composition	Second composition	Third composition
Nutrient Transporter	25-90	35-75	40-65
Stabilizer	05-65	10-55	30-45
Water	20-50	20-40	15-30
Protein Adhesive	25	30	35

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Additional ingredients	8	9	10
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The nitrogen content of the fertilizer composition can range from at least 2.5 weight percent, to at least 3 weight percent, to at least 4 weight percent.

The phosphorus content of the fertilizer compositions can range from at least 1.5 weight percent to at least 2.5 weight percent to as least 3.5 weight percent.

The potassium content of the fertilizer compositions can range from at least 1 weight percent to at least 1.5 weight percent to at least 5 weight percent.

pH adjusters useful for addition to alkaline soil and/or fertilizer can include, but are not limited to, inorganic acids such as HCl, H₃PO₄ , and H₂SO₄, and organic acids such as humic, vanillic and ferulic acids. Additionally, the biochar may be made more alkaline by adding alkaline agents such as lime, bones, potassium carbonate or potassium hydroxide.

This liquid fertilizer composition is maintaining the pH of the soli and increase the productivity. Biodegradable fertilizer is an environmentally friendly and will be available in the market at nominal rate.

We Claim

1. A liquid biodegradable fertilizer material made of biological components comprising

- a) 20 to 40 wt.% of a protein adhesive
- b) 2 to 15 wt.% of at least one hygroscopic mineral
- c) 10 to 55 wt.% of water
- d) 0 to 50 wt.% of an additive component
- e) 10 to 20 % mixing a wood vinegar solution

a nitric acid solution and a phosphorous acid solution at a volume ratio of 1: 0.4 to 1: 0.8 to prepare an acidic mixture are provided in the material

2. A liquid biodegradable fertilizer material as claimed in claim 1, further comprising a bio-renewable nutrient carrier and a biodegradable stabilizer.

3. A liquid biodegradable fertilizer material as claimed in claim 1, wherein the biorenewable nutrient carrier is selected from the group consisting of algae, soy-based carriers, proteins, , biopolymers, , and combinations thereof.

4. A liquid biodegradable fertilizer material as claimed in claim 1, wherein biodegradable stabilizer is selected from Polysaccharides, cellulose, polylactic acid (PLA), polyhydroxyalkanoate (PHA), polyurethane (PUR), polyethylene glycol (PEG), and polyamide.

5. A liquid biodegradable fertilizer material as claimed in claim 1, wherein nitrogen content of the fertilizer composition can range from at least 2.5 weight percent, to at least 3 weight percent, to at least 4 weight percent.

6. A liquid biodegradable fertilizer material as claimed in claim 1, wherein phosphorus content of the fertilizer compositions can range from at least 1.5 weight percent to at least 2.5 weight percent to as least 3.5 weight percent.

7. A liquid biodegradable fertilizer material as claimed in claim 1, wherein potassium content of the fertilizer compositions can range from at least 1 weight percent to at least 1.5 weight percent to at least 5 weight percent.

8. A liquid biodegradable fertilizer material as claimed in claim 1, wherein Biodegradable fertilizer is an environmentally friendly and will be available in the market at nominal rate.

Title: A liquid biodegradable fertilizer material made of biological components

Abstract

The present invention relates to a method for producing a liquid biodegradable fertilizer material made of biological components. It consists of bio-renewable fertilizer compositions and procedures for creating and applying those compounds. The biodegradable nutrient carriers used in the fertilizer compositions, in particular, contain a naturally produced, bio-renewable nitrogen content. Biodegradable stabilizer is also included in the fertilizer mixes. Biological components comprising 20 to 40 wt.% of a protein adhesive, 2 to 15 wt.% of at least one hygroscopic mineral, 10 to 55 wt.% of water, 0 to 50 wt.% of an additive component, 10 to 20 % mixing a wood vinegar solution, and a nitric acid solution and a phosphorous acid solution at a volume ratio of 1: 0.4 to 1: 0.8 to prepare an acidic mixture are provided in the material.

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(57) Abstract :

Present invention discloses a bio pesticide which consists of a standardized aqueous extract of fresh bio waste of Bt crops and its method of preparation. The concentration of CRY protein in the standardized extract ranges from 1-5 mg/Liter, optimally 2.5 mg/L. Preparation method involves fresh bio waste collection, cold maceration using water, preferably alkaline with optimal pH 8.5; at 4-6 times, optimally 5 times the weight of fresh bio waste; filtration, characterization, sterilization and packaging.. For use in the field, same is diluted in 1000 liters of water for spraying in 1 hectare (10,000 square meters) to protect plants from pest attack. Multiple sprays can be given. Being free of chemical compounds, the bio-pesticide is suitable for use in organic farming, safe and eco-friendly, inexpensive and prevents development of pest resistance owing to presence of several phytochemicals and phytomolecules rather than a single chemical entity.

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(57) Abstract :
 Disclosed herein is a drug/medicine free modality technique (system and method) based on Jacobson progressive muscle relaxation and controlled mental visualisation procedure used for physical and mental healing of a wide range of patients who are suffering from hypertension, anxiety, psychological disorders. The system comprises a contented chair/bed (100), one or more sensors (200), and a health monitoring device (300). The chair/bed (100) is adapted to allow the patient body (400) to rest in a relaxed posture. The sensors (200) are coupled to the chair/bed (100) to measure one or more biological signals of the patient body (400). The health monitoring device (300) is communicatively coupled to the sensors (200) to receive, record, analyse and process the measured biological signal received therefrom. The health monitoring device (300) is integrated with an artificial intelligence tool (302) comprising a trained database associated with various parameters of Jacobson progressive muscle relaxation and controlled mental visualisation mechanism for guiding physicians (500) to: close eyes of the patient (400) after lying in the relaxed posture on the chair/bed (100), tighten a target muscle of the patient body (400) with deep inhalations, relax the target muscle of the patient body (400) with gradual exhalations, visualize a cheerful memory or image to bring mental calmness and physical comfort.

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