SoPs for the Office of Research, Innovation & Commercialization

Government College Women University Faisalabad



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PREFACE

institute that was upgraded in January 2013 programs and linking them with industry and cavil society. The ORIC manages university planning, preparation of technical progress and financial reports, internal and external multidisciplinary research and bringing research to public benefit. The office facilitates and rankings and diversified research grants. The office promotes faculty interaction for Commercialization (ORIC) is the central office of the University to manage the research Government College for Women, Frisalabad. The Office of Research, Innovation and Government College Women University Faisalabad (GCWUF) is a newly established monitoring, scholarly publications and patent registration. engages with the postgraduate students and faculty for project proposal write-ups, budgetary by Higher Education Commission from

Business Plan Competitions to promote business startups industry linkages The ORIC arranges internship for startents, promotes entrepreneurship and organizes

relevant national forums The ORIC is also involved in activities through technology display at various Expos and

prepare strategies for developing research projects relevant to policies, procedures and SOPs would make the working easier. Therefore the following pages will support the faculty, spensors, reviewers and other stakeholders The ORIC has a range of responsibilities Therefore, a document needs to be developed that is

1.1.1 Purpose and mission of establishment 1.1 Office of Research, Innovation & Commercialization (ORIC)

Innovation and Commercialization (ORIC). economy, the HEC introduced the new Directorate of Research as Office of Research, To elevate the universities as community builders and promote knowledge based

university among the best research institutions". researches that meet the highest international standards and improve the stature of the the university with our social requirements. ORIC is also responsible for promoting quality of This directorate is established to develop and link the educational and research activities of

1.1.2 Objectives of ORIC

- Improving integration of research and education at all levels of the university Improving recruitment and retention of top faculty.
- Play a part to manage university rankings.
- activities both in government and private sector to cater the need of society. Search & manage multi-disciplinary research grants to coordinate research
- Manage national and international internships for students and faculty.
- commercialization. Link Academia with Industry to promote entrepreneurship and
- Engage with the community through exhibitions and other social events.
- Implement HEC anti plagiarism policy at GCWUF.
- Facilitate interim placements, engage foreign faculty through Arrange business plan competitions to promote business and enroll startups. various
- Share knowledge and technology transfer and arrange faculty exchange
- Faculty Hiring Program are also being utilized through ORIC Qualified Overseas Pakistanis (PPQP), Visiting Scholar Program and Foreign foreign faculty sponsored from President's Program for Care of Highly Arrange Interim Placement of Foreign Ph.D. (IFPF), hire the services of
- teaching and learning assessment strategies Capacity building of GCWUF faculty in core areas of curriculum planning,

1.3 Staffing/ Human Resource details

- 1) Director (Full time/ Additional Charge)
- 2) Manager Resource Development
- 3) Manager University Industry Linkage
- 4) Administrative Assistant
- Research Associate

1.3.1 Supporting staff

- Three administrative assistants
- One accountant
- One human resource officer
- One publication and communication specialist

1.4 Physical Infra Structure

At least 4 offices are required:

-) Office for Director
- Office for Manager Resource Development
- Office for Manager University Industry Linkage
- One office shared by Administrative Assistant and Research Associate

phone and internet service All offices must be well furnished and equipped with necessary gadgets such as computers,

1.5 Sponsors of GCWUF

The ORIC consistently makes efforts to expand resource base of the GCWUF. The

current major sponsors at GCWUF include:

- Higher Education Commission (HEC)
- 2) Pakistan Science Foundation (PSF)
- 3) Pakistan Academy of Sciences (PAS),
- 4) FDTTPC Endowment Fund Secretariat,
- ICT R&D Fund, Ministry of Science and Technology (MOST),

- 9 Govt. of the Punjab,
- 3 International Foundation for Science (IFS),
- 00 PAK-US Science & Technology Cooperation Program,
- ७ Japan International Cooperation Agency (JICA)
- 10) Third World Academy of Science (TWAS)
- German Academic Exchange Service (DAAD),
- 12) Support Program (PSSP), International Food Policy Research Institute (IFPRI) -Pakistan Strategy
- 3 AUSAID,
- 14)
- 5 3 (SANDEE) South Asia Network for Economic Institutes (SANEI), South Asian Network for Development and Environmental Economics
- United Nation Industrial Development Organization (UNIDO),
- E Grand Challenges Canada,
- <u>~</u> Centre for Environmental Risk Assessment (CERA),
- 9
- 20) Turkish International Cooperation Agency (TIKA),

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COMSTECH-TWAS Joint Research Grant Program.

sources and sponsoring agencies. for upgrading of libraries, grants for scientific journals & travel grants from the diversified workshops / conferences / symposia, grants for repair & maintenance of equipment, grants The ORIC also facilitates the faculty to seek grants for organizing seminars /

6 Business Incubation

faculty and students about innovation and commercialization. Women Business Incubation Center (WBIC) has been set up to develop an approach of

The human resources at WBIC consist of:

- Executive Director
- Assistant Director

experience in the relevant sector, is not defaulter of any financial institution or any government duties or taxes. For selecting incubating companies the candidate has to have repute and reasonable

pre-feasibility and strong growth potential, it should I emonstrate scalable business potential with providing and strong growth potential, it should I emonstrate scalable business potential with good financial conditions. The proposed business must have a good understanding of the market and competition, has

At least one full-time person needs to be appointed who is committed to company and

have relevant professional experience and education.

1.6.1 Selection Committee for we solve at

Chairman

Vice Chancellor, GCWUF

Member

لما Director Business Incubation Center, OCWUF

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Director ORIC

Member

4 Relevant faculty member

Member

Ųħ. Representative of HEC

Member

Member

Representative of Industry

appropriateness to use WBIC. entrepreneur's The Selection Committee may conduct face to face interview of the applicant to evaluate business prospects, strengths, potentials 5 manage

1.6.2 Follow up program

after the exits by creating linkage with the scientists/researchers of the GCWUF to further improve the technology/product The Business Incubator will make arrangements to facilitate the graduating incubatec

1.6.3 Revenue Generation for the Incubator

- Incubator may charge each incubate a reasonable residency fee to cover utility,
- internet, telephone, building rent, stationary and building maintenance costs. Where university funds/customized services are utilized for product development and
- or commercialization, the incubator may acquire equity share in the company. Incubator management will ask the treasurer GCWUF to keep recurring budget for the
- on-going quarter in its current account and the rest of the money may be deposited in a savings account. Interest accumulated from the savings account will be considered revenue generated for incubator

1.6.4 Facilitating services to be provided by the WBIC, GCWUF

- BIC will provide entrepreneurs with well-equipped laboratories, extensive libraries, the faculty. powerful computer systems, and technology expertise and subject-matter experts from
- Assist in preparation of feasibilities of projects
- Participate in securing financing for the projects
- Ensure commercial and economic viability of coordinated projects.
- Assist in formulation of business and market plans.
- Participate in finding suitable markets for the products of the project.
- of coordinated project Facilitate in the removal of legal and or administrative hurdles in the implementation
- scientist/inventor of the product Facilitate in getting patent for the product and intellectual property right to the

1.6.5 Exit Policy

The incubate company will be graduated out of the incubator once it meets the following

- completed yet, an additional 2-6 months could be given. Incubatee might have spent about 18 months at the incubator. If the project has not
- allow it to operate successfully outside the incubator. company has transferred technology to another party or has a solid plan that will Incubatee has achieved milestones agreed in the business plan. Specifically, the
- Space requirement of the incubatee company exceeds incubator capacity.
- If incubatee fails to meet the quarterly targets twice in a calendar year.
- If the review committee decides that the project is no longer viable.
- If incubatee violates the tenancy agreement.

1.6.6 Outreach Activities

degree/diploma holders are engaged in the relevant activities through ORIC. Research commercialization, Technology launched a special program "Punjab Youth Internship Program" in which professional Events are a regular feature of outreach activities. The Government of the Punjab has Along with regular internship, Awareness and Technology Transfer Campaigns/ Transfer and Outreach activities are carried out through

commercialization and registration of patents under IP policy to promote entrepreneurship of Startups and new companies, providing consultancies career development, Exhibitions, Festivals, Business Plan Competitions, Showcasing of Technologies, incubation product

1.7 Research Projects

office maintains the accounts the name of any individual or institute or department or sub-campus and the Treasurer's the Vice Chancellor and ORIC. All funding is made in the name of the university and not in routed through ORIC. When funded (National /International), the agreements are signed by try to promptly email all calls for proposals to the individual faculty members. All proposals The Office of Research, Innovation and Commercialization (ORIC), GCWUF shall

1.7.1 Who could be a Principal investigator, Project Manager, Team Leader

resources or facilities, can submit research proposals as Principal Investigator (PI), Project etc.), receiving any part of their salary through the university or using any university (Co-PI) complements the project activities. technology transfer project, funded by any sponsoring agency. The Co- Principal Investigator and reporting of a research. Training / community service, consultancy, commercialization or Manager (PM) is responsible for the design, scientific conduct, and administrative conduct Manager (PM), Team Leader (TL) through ORIC. The Principal Investigator (PI), Project management is delegated to Co-PI with the approval of the Vice Chancellor. activity. The P.I. exercises the financial powers and in the absence of in the project activities to a significant degree and dedicates time in percentage for the project representative by the university authorities from time to time. The PI personally participates The GCWUF faculty members (Part Time, Full Time, BPS, TTS, Adhoc, Contractual The PI exercises the financial powers as PI the financial

1.7.2 Preparing, submitting and processing of Proposals

initial scrutiny/review is carried out at ORIC and after incorporating the suggested changes, prepare the proposal and budget estimates on the prescribed format and submit to ORIC. circulated through email among the faculty members of GCWUF. The faculty members The call for proposals from any national and international funding agency is

endorsement from the Vice Chancellor through ORIC. communicated for revision and the PI re-submits the revised proposal after getting fresh or may reject the proposal, which is communicated to the proposer and ORIC also. In case expert may recommend the proposal either accepted as such /or with major or minor revision funding agency sends acknowledgement and initiates the review process by the experts. The Copy of this letter is also sent to faculty member/Principal Investigator for information. The sent to funding agency for further processing through a covering letter from Director, ORIC. approval for submitting the proposal to funding agency. Signed research project proposals are the proposal is processed for signatures of the Vice Chancellor on the proposal & seeking project is recommended the comments/ changes suggested by the reviewers

to the Principal Investigator and ORIC Treasurer Office. Cheque is submitted in bank account by the Treasurer Office and is notified and the P.I. First installment is released from funding agency and cheque is received in bank account is opened by the Treasurer Office and information is sent to the funding agency project funds. The P.I. then requests the Treasurer's Office for opening of a Bank Account. signatures of the Vice Chancellor and it then sent to the sponsoring agency for release of Chancellor. After endorsing his/her signatures, the P.I. submits of agreement which has to be signed by the Project Investigator and the Vice As a project is approved, an approval letter is issued from funding agency with the the agreement for

not, overhead charges paid or not. Same is submitted for 2" or 3rd year cases of honorarium. the request to Registrar Office after checking that reports for 1st year has been submitted or forwards the request of Principal Investigator to ORIC for comments. The ORIC resubmits honorarium is submitted to Registrar Office by Principal Investigator. The Registrar Office submits to funding agency and a copy is also received in ORIC. The request for 1st year prepares annual technical and financial report on prescribed format of funding agency and After completing the one year of project implementation, Principal Investigator

payment by Principal Investigator and Co-Principal Investigator. After evaluation of final reports, ORIC allows to utilize the amount of honorarium as funding agency extends the project life for a specified period without any financial liability. for extension in project life is sent to funding agency by Principal Investigator through ORIC, Due to some reasons if there is any delay to complete the project activities, a request

project funds are ensured by PI to transfer to department/institute with proper documentation/ submission to BIC or Patent registration stock entries. Invention Report based on the findings of the project is send to ORIC for onward After successful completion of the project, the permanent items purchased out of the

1.7.3 Responsibilities of PI, Co-PI, PM

The PI/Co-PI/PM prepares the estimated budget and justification for the project activities within allowable cost of the expected donor

- The PI/PM is authorized for amendment in the proposed budget before final approval but is not allowed for any badget re-adjustment without prior permission of the
- V The PI/PM is bound to follow the time frame as committed in the project document funding agency after approval.
- V unless special permission is granted by the funding agency with logical reasons The PIPM is not allowed any spending prior to an award. However, when project is
- awarded but funding is delayed; loan may be requested from the university through ORIC to kick start the project.
- V project activity is pending due to one or the other reason, special request is sent to the The PVPM is not allowed to use funds after the termination of the project. If any funding agency through ORIC for extension of the project duration without any financial liabilities to complete the task
- V It is mandatory for the PI/PM to document project income (fee from services Symposia or income generated from sale of the product developed with the project performed, fee collected from registration for Conferences/Workshop/Seminar/ project document, request for special arrangements is routed through ORIC for doing Office. If there is no proper arrangement for accounting the project income in the the agreement along-with financial report of the project duly signed by the Treasurer's funds and expenses for onward sending to the sponsoring agency, if required under

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- V The PI/PM is bound to follow the SOPs notified by ORIC/University authorities after the needful by the Treasurer's Office.
- V seeking approval from the competent authority. Appointment of Research Officer/Research Associate/Research Assistant/ Research
- Fellow is made as provided in the project document.

- V For hiring of vehicle for tours in connection with the project activities expenses will be met out of the funds provided in the project document.
- V allocated in the project document for these purposes. provided in the project document. The PI/PM is not allowed to exceed the funds rules/SOPs for charging TA/DA for her and for research staff as prescribed under the The PIPM is to follow the Traveling Allowance (TA) and Daily Allowance (DA) Expenses of TA/DA for the project team will be met out of the funds

record on the stock register is sent to the ORIC and is made part of the project file purchased out of the project funds are transferred to the department/ institute and the entry concerned department. After receiving consent from the funding agency permanent items, of units, etc) to ORIC for funding agency approval to transfer the permanent items to the items/equipment purchased out of the project funds, cost, date of purchase, workability, No. permanent items/equipment inventory report (with complete The PI/PM, after the successful completion of the project is to submit detail of,

1.7.4 SOP's for recruitment of Research Associates /Fellows/ Officers

recruitment of Research Associates / Fellows/Officers for different research projects: To facilitate the researchers and smoothly run the projects,

- a. Project Manager/Team Leader/Principal Investigator
- (convener)
- b. Rep. of Dean/Director of the Faculty /Institute concernedc. Rep. of Chairman of the department concerned
- d. Registrar or her Nominee

1.7.5 Responsibilities:

- The Project Manager/Team Leader/Principal Investigator will be responsible for in Campus News/National Newspapers, as per requirement of the funding agency getting approval of the case from Vice Chancellor and advertisement of position/post
- 12 The applications will be received by concerned Project Manager/Team Leader/PI and will be processed within one week after the last date of submission of applications.
- į. The committee will conduct interview of the candidates and send recommendations to the Vice Chancellor for approval within one week of the date of interview
- 4 After getting approval of the case, the Registrar Office will issue offer letter within one week from the receipt of approved case

- CAR Fellow/ Officer may join his/her duties from the date of commencement of project concerned immediately after signing/approval of project so that the Res. Assoc. / The process of recruitment will be started by the Project Manager/Team Leader/PI
- Ġ, of resignation from Research Associate / Fellow / Officer and approval by the Vice In case of resignation by Research Associate/Fellow/Officer, the Project Manager / Research Associate/Fellow/Officer within 2-3 days from the date of receipt of notice Team Leaders/Principal Investigator may start the process for recruitment of new
- 1 from the date of commencement of case by Frincipal Investigator The above mentioned recruitment process should be completed within one month

1.7.6 Research Misdemeanors

per agreed terms and conditions university rules and regulations probes in, reports to the authorities, and resolve the issues as royalties received through the university. If such a situation arises the ORIC following the interests and intellectual property rights, copyrights and royalties from the rights, other than of interest i.e. salary or other payments/ gifts received for services, ownership, equity competent authority. The PII/PMITL is illegal to engage in any activity that creates a conflict credit to the source will be considered as research misconduct. Such misconduct is handled Ethics Committee or other special committee constituted for this purpose by the The fake results/ data, ideas, text, pictures without permission and giving appropriate

1.7.7 University Logo

ORIC through all possible means, will facilitate to organize such events in a befitting manner. project funds, prior approval from the competent authority through ORIC is mandatory. The manufactured out of the project funds, or issuance of certificate/ shields with university logo instructions for this purpose. For example, for the sale of any product developed participants of the Workshop /Seminar /Conference /Symposia organized from the The PI before using the university name or logo will have to follow the standing

1.7.8 Un-spent funds after Termination of Project

expiry of the project life. He/she will request the Treasurer to transfer the unspent balance in The PI/PM is not authorized to utilize/spend project funds after the termination

Pendency in this respect is not appreciated favor of the funding agency, The ORIC will help in settling of financial obligations,

1.7.9 Policy for Purchases

staff or hiring of students etc. before purchase of any permanent and consumable items, and hiring of contract/contingent registered firms with NTN, Sale Tax Number, Contract rates specified for the special items) and provided in the project document. The PI is to follow the rules and regulations of the funding agency and standing instructions/purchase policy of the university (regarding technical meeting related to funded project, is allowed provided it is specifically budgeted Membership & subscription fees needed by the PI/PM/TL for attending a professional Inventory Control. Any payment in violation of standing instructions is not processed (following PPRA Rules, Govt. of the Punjab) through Directorate of Procurement and All purchases are made following rules and rates prescribed by the university

1.7.10 Cost Sharing

matching grant when it is a condition of receiving an award. grant funds be matched in some proportion by the grant recipient and the university may offer funding is not being requested from the funding agency. Matching grant is a requirement that agency will not award the project or voluntary, which is identified in the proposal for which be mandatory, where the university must contribute towards the project otherwise funding by the university, not by the funding agency) in the project document. The cost sharing would The PI/PM should mention any "cost sharing" (the portion of project expenses borne

1.7.11 Time sharing

onward submission to concerned funding agency percentage of the total time on all work related activities. The PI will request to ORIC and is duly certified by the competent authority. Time spent in the project is expressed as a will document the time spent by her or any of the project staff for the project activities, which will be processed for certificate by the VC / Competent Authority accordingly If salary or some part of the salary is charged out of the project funds, the PI/PM/TL

1.7.12 Obligations for handling Human and Animal Subjects

subjects (including new drugs, medical, radiological engineering, physiological, behavioral, strict compliance/implementation of Bio Safety Protocol. questionnaires, interviews etc) are treated responsibly. The PI/PM will be responsible for the sociological and nutritional studies involving human tissues or blood, as well as images, The PI will follow legal and ethical obligations to ensure that human and animal

1.7.13 Monitoring and Evaluation

projects through its own staff. of monitoring team(s). In addition, ORIC will start Internal Monitoring and Evaluation of the ORIC will make efforts to resolve the issue(s) during the project execution or during the visit raised by the monitoring team(s) regarding timely achievement of the time bound targets. The the sponsoring agencies for GCWUF projects. The PI is bound to answer all the queries The staff at ORIC will coordinate and facilitate the monitoring teams constituted by

- ensure timely submission of reports. ahead of due date for submission of technical and financial reports and will follow up to The ORIC staff will write a letter to regaind the PI for submission of reports 4 weeks
- N projects within the given timelines, before sending the reports to the funding agencies. Director ORIC will endorse his/her comments on quality and achieved targets of the
- (w) Honorarium to the PI will be admissible on successful completion of the project following the SOPs of the funding agency.
- A The PI will submit a Procurement Plan to Directorate of Procurement and Inventory Control (DPIC) and the DPIC will ensure that ORIC is represented in the procurement
- S The staff at ORIC would give random and structured monitoring checks to project activities and documents

1.7. 14 Documentation of the Project

base (Micro Soft Access/Specialized Software) and every activity carried out at ORIC and data log for the project (On-going, Submitted or sponsoring agency through ORIC. The ORIC un establishe a Data Management Unit for each Completed) progress and any correspondence is unintained in the form of file and computerized data It will be mandatory for the Principal Investigator (PI) to correspond with the

termination of the project etc.) to ORIC well in time The PI will provide all the relevant information (extension in the project life,

1.7.15 Remuneration to the Project Team

pending issue with the sponsoring agency. have been transferred to the Department/ Institute through stock entries and there evidence that unspent balance has been refunded to the funding agency and permanent items final year remuneration/honorarium will be recommended on the production of documentary notified after recommendation of Director ORIC and approval from the Vice Chancellor. The checks, the P.I/PM will apply for the grant of remuneration/honorarium, which will be ORIC when funds are provided in the budget of the approved project, satisfactory reports are paid to the university. After completion of each project year and completion of the explained received from the funding agency on the Technical and Audit Reports, overhead charges are Remuneration/honorarium will be admissible on the recommendation of Director

1.8 Policy for Bio-safety

under section 9 of the Pakistan Bio-Safety Rules, 2005. constitute an institutional Bio-Safety Committee (IBC) to perform the functions as laid down (I) 336 (1) 2005 dated: 21-4-2005, the Competent Authority (VC /Chairman IBC) will In terms of section 8 of the Pakistan Bio-Safety Rules 2005, notified vide No. S.R.O.

the biological material or import/export of material (export control Act-2004). biological agents will follow the legal procedures of registration and licensing for handling students, project staff, laboratory technicians with other researchers or students dealing with The IBC will recommend general Bio-Safety Protocol for the researcher and all Pls, Co-PLs

rules 2005 (SRO-336(1)2005). availability of bio-safety/bio-security facilities at GC W U F as specified under bio-safety Modified Organisms (GMOs)/transgenic plants. The ORIC will also assist the PIs to respond any funding agency ensuring the implementation of national bio-safety guidelines and Pls will seek permission from IBC through ORIC to initiate work on Genetically

1.8.1 Institutional Bio-Safety Committee

General lab safety protocol prescribed by institutional Bio-Safety Committee (IBC)

- Appropriate hazardous, toxic, inflammable labels etc shall be displayed outside every
- Ņ It will be made sure that all the containers are labeled properly. The labels on bottles name shall be displayed on the opening door of every laboratory. It will be the duty of to humans or surrounding environment. The lab safety levels and responsible person's lab where such materials are placed and/or used every PI / Faculty member that they have to inform the ORIC for their biological definition involve any substance, which can cause physical or physiological damage will be checked before removing their contents. Note: The hazardous chemicals by
- places in the lab. All chanol/methanol or inflammable items will be stored in opposite Inflammables, acids, corrosives and caremegenic material shall be placed at separate materials will be stored in the cabinets close to the ground. to laminar airflow or gas burner points. Such chemicals, including acids or corrosive
- **\$** opened in fume hood to avoid respiratory tract damage. All the inflammable or highly reactive compounds like methanol or SDS will be
- Ų. Every student and technician in the lab shall get 2 hours, mandatory training arranged
- 9 by the university. Every lab shall have a responsible person in addition to PI for chemicals
- Awareness shall be developed among researchers in lab meeting about lab safety.
- Safety officer and committee will be responsible to implement the safety measures.
- Every lab shall be equipped with safety goggles. All the researchers using UV lights,
- heating/boiling liquids on hot plates shall use safety goggles.
- Every researcher shall use latex glowes to deal with carcinogenic, corrosive and hazardous microbes.
- jezzak Jezzak G and plants, before discarding them in regular trash. All PIs shall purchase autoclavable bags for autoclaving microbes, transgenic animals
- Seed Seed not touch any equipment or instrument if he/she is not trained for it. Laboratory A worker using the instrument/chemical will be responsible for personal safety will supervisor or the PI will be asked for help

- 13. Lab staff shall get training for work safety in the lab. If they do not understand a proceeding with the activity. direction or part of procedure, they are guide to ask the teacher /safety person before
- 14. No researcher should work alone in the laboratory. Supervisor should be informed which working in the laboratory alone
- 15. When first entering the lab, equipment/chemical or instrument should not be touched with naked hands. Permission should always be sought out from the supervisor.
- 16. Only such experiments are performed that are authorized by the supervisor. One cannot start work if he/she is not authorized.
- 17. Eating and drinking in the way laboratory shall be strongly prohibited
- 18. Practical jokes and pranks are very dangerous and shall be strictly prohibited.
- 19. It will be made sure that lab is well ventilated and in case of gas leakage or electricity problems security will be informed immediately.
- 20. All workers will be advised to remain alert and work with caution and inform teachers of co-workers are not working safely.
- 21. Use of freezers storing ethanol/enzymes/hazardous chemicals or microbes will be prohibited for food storage. Every microwave and freezer in the laboratory sould be labeled with "No food items here".
- 22 Researchers wearing contact lenses shall be warned for exposure to UV light or flames due to chemicals burning.
- 23. Work area will be kept clear of all materials except those needed for the work. Proper secured. Shoes must completely cover the foot. No sandals will be allowed while long hair must be tied back, and dangling jewelry and baggy clothing must he hair, dangling jewelry, and loose or baggy clothing are a hazard in the laboratory's from equipment that requires air-flow or ventilation to prevent overheating. As long be hung in the hall or placed in a locker. Extra books, purses, etc. shall be kept away dress will be used during laboratory activity and lab coats will be worn. Coats should
- 24. Any chemical in the lab shall not be touched or smelled
- 25. Drinking water from lab sink is strongly prohibited. Every sink shall have the note, "No Drinking Water"
- 26. Pipette will not be sucked with mouth. Always proper equipment shall be used to suck chemicals

- 27. Un-used chemical will not be returned to the original bottle and shall be transferred to
- Glassware shall be examined before each use. Chipped, cracked, or dirty glassware a new bottle and mentioned the date of use and removal.
- 30. Container that is being heated will not be look into because the vapors may be 29. The glassware may shatter if hot glassware is used in cold water and shall be avoided. will not be used.
- dangerous and can damage eyes and skin.
- 31. If piece of equipment fails while being used it will be reported immediately to the lab others. Always the instructor shall be informed of a thermometer is broken or mercury assistant or tutor. The problem will not be fined because one could harm herself and
- 32. While leaving the lab unattended ignition sources shall be turned of and doors locked is to be cleaned
- 33. It will be prohibited to look into a laser beam.
- 34. While adjusting high voltage equipment or a laser, which is powered with a high pocket or behind the back. This procedure eliminates the possibility of an accident voltage supply, only one hand shall be used and the other hand will be best placed in a where high voltage current flows up one arm, through chest, and down the other arm.
- 35. Using extension cords shall be avoided and must use one, obtain a heavy-duty one into other extension cords. cords should not go under doors, across aisles, be hung from the ceiling, or plugged electrically grounded, with its own fuse, and is installed safely. Extension
- 36 The cylinders containing explosive/inflammable properly with certain support, otherwise these may collapse resulting in severe gases must be fixed or encaged
- The labs must be equipped with smoke detectors to cope with any fire related accident
- 38. Every lab shall have more than one entrance/exit to escape any kind of accidental at first hand
- Emergency rescue agencies (1122, fire brigade, Edhi Trust etc.) contact numbers
- \$ It will be made sure that electric power buttons for lights, fans, air conditioners and must be pasted/hanged in every lab: computers, etc., are properly switched off, before leaving the lab to avoid any chance

of short-circuiting, due to prevailing electric power fluctuations

41. Cell phones shall not be used while dealing with inflammable chemicals and Hi-Tech respectively. equipment as these may act as source of ignition and electronic signal interference

B-Waste Disposal.

- Every lab shall have waste containers in the lab, with waste bags placed in every waste disposal container such as:
- A small container for sharp objects, like blades, needles etc
- A big container for broken glasses.
- A solid waste container for toxic chemicals (such as phenol), used tips &

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- Every container shall be properly labeled
- 3. Chemicals shall not be poured into sink.
- 4 Chemicals shall be according to their appropriate waste disposal
- ; Un Gloves shall be used when dealing with waste of hazardous chemicals and microorganisms.
- 9 Every researcher shall have small trash boxes on his/her table
- **-1** Broken glass shall not be handed with bare hands. Brush and dustpan shall be used to clean up broken glass. Broken glass shall be placed in the designated glass disposal
- 8. Spills shall be cleaned immediately
- 9 Ethidium bromide is highly carcinogenic chemical shall never be discarded into sink after drying. The Ethidium bormide areas shall be kept separate from other areas. The gels with less than 0.5ug/mL of Ethidium bromide can be discarded into regular trash gels shall be kept separate. Solid Ethidium bromide gels shall be dried in a hood. The discarded into sink. All sharp blades used for cutting the Ethidium bromide stained after 3-4 days (when tea bag absorbs all the Ethidium bromide) the buffer can be for its disposal. This tea bag can be left in Ethidium bromide buffer container and respiratory tract and skin. The Green Bag Kit containing a "tea bag" shall be utilized The powdered form of Ethidium bromide is considered irritant to eyes,

- pipettes, trays and containers used for Ethidium bromide should not be used for other
- such as acetone, methanol and formaldehyde. several locations around the world to remove phenol from wastewater. Even high phenol tips/liquid/solid shall be discarded separately. Phenol is irritant to eyes, skin Regeneration of the resin is accomplished in several ways: 1% caustic or solvents concentrations of phenol (20,000 ppm) in wastewater have been effectively treated and mucous membranes. Amberlite TM XAD4TM polymeric adsorbent is used in Phenols/ Corrosive Chemicals: Phenol should never be discarded into sink. All
- 11. Wherever possible, use minimum amount of chemicals to avoid a lot of waste inactivated by high temperature, cautions should be taken before autoclaving to avoid volatile compounds production. separately and the university should manage their disposals. If a chemical is discarded in regular trash. However, other hazardous chemicals shall be stored properly labeled and shall not be disposed in regular trash. Solid PAGE gels can be production. The chemicals, like silver stain or liquid polyacrylamide gel, shall be
- 12. Microbial Safety: All the bacterial/fungal/other microbial cell lines can never The tips shall be autoclaved etc in an autoclavable bag and then discarded into regular left overnight on bench and then discard in sink. For solid microbial waste disposal, discarded in sink. Add 5m1 of 10% commercial bleach in 100 ml of culture shall be

C. First-Aid in the Lab.

- 1. First aid kit must be made available in every lab.
- It shall be made sure that every student knows about fire extinguishers in extinguishers, which are annually monitored for their function. department or if possible in the laboratory. Every department have at least 2
- w If any chemical splashes in cyc(s) or on the skin shall be immediately flushed with running water for at least 20 minutes.
- If phenol contacts the skin, workers should immediately wash the affected areas with univ. Biosafety Guidelines. Failure to follow the university guidelines can result in the involving recombinant DNA (tDNA) conducted at the univ, must comply with the soap and water. No phenol wastes shall be disposed in regular trash. All the projects,

meet these requirements investigator working with transgenic Plants, it shall be the responsibility of the user to investigators may obtain the information to work with transgenic plants. have developed a policy and a protocol, outlined in this fact sheet, through which defined as academic misconduct as outlined by university policy. University should university. In addition, any intentional failure to comply has the potential to be suspension, limitation, or termination of projects fund for all rDNA research at the

- jamak B Safety Committee before doing any experiment in the field with the transgenic plants As part of the university policy, one must register and get the approval from the
- N accidental environmental release. Typically, autoclave treatment is employed for transgenic plants and seed inactivation. transgenic plants, including seeds, must be inactivated prior to disposal, to prevent To dispose off transgenic material, It is required that transgenic plants and materials from
- 40 transgenic animals and transgenic shall be prohibited without the written approval of the or inter-departmental transfers of rDNA and transgenic materials including
- A recombinant DNA materials It shall be required that significant research-related incidents be reported immediately to the Institutional Bio-Safety Committee. Such incidents include research-related accidents as well as inadvertent release or improper disposal of bio- hazardous or
- U All the researchers, transferring any transgenic material from outside the country shall register with the university and take approval from IBC before growing at campus green
- All the transiently infected plants (with virus/bacteria/fungi or any pathogenic species) shall autoclaved before disposal.

with all terms and conditions of the Donor agency/parent institute of the PI with prime award. of the project. The PJ/PM will ensure in the project document that sub-recipient must comply from the recipient of sub-award. The PL/PM of prime award will ensure and manage timely submission of reports and response will mention in the project document and decide the share for sub-award before the approval recipient can receive funding in the form of a sub-award from the prime award. The PI/PM carried out at other institute with the collaboration of the scientist(s) over there, the sub-If the PI/PM is the prime recipient of the project and a part of the project is to be

of work, budget and time lines. organization. Under both situations a separate agreement shall be executed with clear scope Likewise a faculty member at GCWUF could be pa sub-awardee with other

1.9 Policy for HEC Approved Ph.D. Supervisors

examining at ORIC, the application is submitted to HEC by ORIC and applicant sends soft getting endorsements from Director/Chairman and Dean of the Faculty. After preliminary PhD faculty members apply on prescribed proforma and submit two copies in hard form after become eligible for supervising HEC Scholars under Indigenous Fellowship Programs. The sends her an acknowledgement letter and upload the name at HEC website. Using the pin under this program. When an applicant is selected as HEC approved supervisor, the HEC copy to the concerned office at HEC. The faculty members can apply throughout the year code provided by HEC, HEC approved Ph.D. supervisor will update her status on the HEC website from time to time The faculty members are encouraged to register as HEC approved PhD supervisors to

required. No request of the scholar is entertained without the consent of the supervisor. capacity for research of the scholar. It will be reported to HEC and ORIC as and An approved supervisor is solely responsible for the performance, attendance and building The HEC Fellowship awardees must be supervised by the HEC approved supervisors

Policy Guidelines for Submission of Research Publications

has devised the following mechanism For the research findings to be published in the scientific journal of well repute, ORIC

GCWUF in their publications All faculty members at home and abroad shall be directed to show affiliation to

and oral presentations etc.) would be credited to faculty members unless it is registered at manuscript shall be sent at the given email and get the response (publication registration (ORIC) has started issuing publication registration number through the email address, number) on the same day. Manual, Monograph, Articles, Abstracts, Proceedings, Paper presented in conferences with a specified number. Office of Research, Innovation and Commercialization No research publications (Research Paper, Book or Book Chapter, Technical Report

1.11 Policy guidelines for availing Travel Grants

- international conferences are processed through ORIC. The requests for travel grants to various funding agencies to present the work in
- proceeding abroad more than twice a year. From the previous record maintained at ORIC, it is verified that the applicant is not
- documents are ensured by ORIC to be attached with the application: For oral presentation before submitting the case to the funding agency, the following
- 'n Acceptance letter by the host institute/organizer for oral presentation.
- Full length paper with plagiarism report.
- Soft copy of the paper to be presented
- Signature stamp from head of the department/institute.
- Brief CV of the presenter.
- If all the relevant documents are attached according to the funding agency for onward submission. requirements, case is sent to the Vice Chancellor for seeking permission
- The applicant as well as head of the department/institute is also informed agency along with all the relevant documents attached by the applicant. • After approval from the Vice Chancellor, a letter is sent to the funding
- and for ORIC record. requested from the recipient for onward submission to the funding agency successful completion of the tour, a task completion report is

Policy for Procurement & Inventory Management

with NTN. Sale Tax number, Contract rates specified for the special items) before purchase agency and standing instructions/purchase policy of the university (regarding registered firms provided in the project document. The PI is to follow the rules and regulations of the funding meeting related to funded project, is allowed provided it is specifically budgeted and Membership & subscription fees needed by the PI/PM for attending a professional technical Inventory Control. Any payment in violation of standing instructions is not processed. (following PPRA Rules, Govt. of the Punjab) through Directorate of Procurement and All purchases are made following rules and rates prescribed by the university

of any permanent and consumable items, and hiring of contract/contingent staff or hiring of students etc.

1.13 Policies and Procedure for HEC Funded Indigenous Scholarships

- HEC announces advertisement the call for Indigenous Ph.D. Fellowship Program through
- N The interested students apply online independently
- س HEC announces the result of scholarship and list of scholarship awardees is displayed on HEC website.
- de la HEC issues debit advices to the students and send their cheques of first installment to
- Un The Treasurer Office, GCWUF sends information to ORIC with dates, duration and
- amount of cheques The student submits the debit advice to ORIC for the release of her installment
- -3 ORIC notifies the installment of student after checking the status of installment
- çe On the completion of one year, students submit their progress and funds utilization received.
- HEC evaluates their reports and release their next installment, which is processed reports to ORIC through their supervisors and Chairpersons/Directors, which are forwarded to HEC
- 10. On successfully defending their synopsis and thesis, the supervisor of the student accordingly

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- apply for honorarium, which are forwarded to HEC after monitoring the reports and
- 11. On completion of Ph.D, completion report with thesis is forwarded to HEC notifications.
- If student faces any problem to complete her Ph.D on time, then applies for extension.
- 13. IRSIP training of HEC scholarship awardees students are also processed through which is processed after checking the status of research

research activities of the Ph.D. awardees: SOP for the followings to make in line with the other institutions and for smooth running of

3 equivalent to the status holding in his parent department The awardee, who is already in government service, may be considered for the purpose

- b) Those, who are not in government service, may be considered for the purpose equivalent to the status of BPS-17.
- 1 The facility of TA/DA to the PhD. Scholarship awardees will be subjected to the head "Support to University" provided for Tuition fee, reference books, in case of 5000 is essential for the research studies of the student. The expenditure shall be incurred from certification of the Supervisor, Chairman and Dean/Directors concerned that the touring Scholars Program. Scholars Program and Grant for Development of Department in case of 200 and 300

Guidelines Organize Seminar, Workshop, Conference and Symposia

workshops/symposia/conferences, submitted at ORIC for record and for onward submission to the funding agency operates /utilizes funds with the intimation to ORIC and copy of fund utilization report is chancellor, the receipt of funds, the applicants are informed accordingly by ORIC. He /She member/organizer on Different funding agencies provide financial support to conduct seminars/ the prescribed performa and after seeking approval from the request for funding is floated by the faculty

1.15 Student Internship

SOP Regarding Placement of Student for Internship

- 1.14.1 Before commencement of last semester of undergraduate students, Govt. Research & Extension Institutes/Private Sector is requested for the placement of students in their institutes/firms.
- 1.14.2 Consent of the students is also kept in consideration before the placement
- 1.14.3 After seeking the demand of the host Institute and keeping in view the preference of the student, information on the prescribed proforma is compiled:

1.143.1	Name of student, Father name o Registration No / Department
1.14.3.2	Email address
1.14.3.3	Cell No. or contact No.
1.14.3.4	Domicile District
1.14.3.5	Preferred place for internship

1.14.3.6

Dist/Tebsil for placement

- 1.14.4 Department/Institute/Faculty wise monitoring-cum coordination teams are constituted to follow up the progress of the internees and resolve the issues (if any).
- A prescribed evaluation sheet is sent to Host Institute to evaluate the performance of
- 1.1 4.6 A work done / task completion report is prepared by the internee and is counter singed submission to GCWUF. by the Internship Station Supervisor (ISS) & Head of the Host Institute for ouward
- 1.14.7 After successful completion of the internship, dully signed report is submitted by the duration and distribution of the marks is appended. department / faculty/ Institute level followed by presentation and oral exam. The internce at GC W U F in the relevant department / institute & is evaluated at
- 1.14.9 Grade is reflected in the transcript of student 1.14.8 After presenting the task completion report publically (in seminar), the result of the student is sent to Controller of Examinations, following the grading system of GCWUF for notification:
- I.14.10 In case of international student, the internees are provided lodging / boarding on free of cost provided to the internees basis while living expenses are borne by the internees. Security and other facilities are also

1.15 Punjab Youth Internship Program

efforts. The GCWUF entertain the internees under this program. sector has stepped forward for the capacity building of the internees in line with the Govt. degree/diploma holders by placing them in the institutes of their relevant discipline. Private The Govt. of the Punjab has initiated a special program "Punjab Youth Internship with the aim to enhance the competencies & skills of the professional

- The ORIC will act as Focal Point for dealing with internecs placed by DO (HRM) member to the internee for payment of stiperal attendance report etc. Faisalabad and without clearance by ORIC no letter will be issued by any faculty
- e e will refund if scholarship/financial assistant received, after joining as internee at GCWUF assistance by any source, it will be stopped during the internship period. The internee internee placed at GCWUF is already receiving any scholarship/financier

- P The ORIC will identify the department/institute before placement of the internees (as per professional degree/diploma of the internee) and it will be ensured that the internee may not be placed in the parent department (if the internee is GCWUF
- P The internees will only be entertained at GCWUF having placement/offer letters issued by -DO (HRM) Faisalabad.
- The Director of the institute/Chairperson of the department will not issue attendance through ORIC /absent/progress report of the internee directly to DO (HRM). It will be routed

1.17 Consultancy Projects

problems under the frame work of the university The faculty members may provide the consultancy to the civil society for the solution of the

- The faculty member(s) as service provider or stakeholder as service seeker will directly contact with BIC/ORIC before initiating the activity.
- judicial paper of not less than Rs. 20/- and mention all the terms & conditions in the The faculty member will produce mutually agreed points after discussion on the agreement.
- charges @20% and BIC facilitation charges @20% of the total consultancy fee The agreement will comprise along with other conditions GCWUF consultancy charged from the stakeholder (service seeker) while remaining 60% will be the sole share of the service provider /faculty member.
- approval of the competent authority (the Vice Chancellor) The consultancy agreement will be got signed by the Director ORIC after the
- In case of any dispute, the decision of the Vice Chancellor will be final and authenticated.

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