



**Guru Gobind Singh Indraprastha University**  
**Sector – 16C Dwarka, New Delhi – 110078**

**(Coordination Branch)**

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**F.No.: GGSIPU/Co-ord./50<sup>th</sup> AC/2021/121**

**Dated: 2<sup>nd</sup> July, 2021**

**Circular**

Please find enclosed herewith the final Minutes of the 50<sup>th</sup> meeting of the Academic Council of the Guru Gobind Singh Indraprastha University held on **11/06/2021 at 11:00 AM** on Cisco Webex platform.


  
**(Ravi Dadhich)**  
**Registrar**

**To,**

- 1 Dean- USBAS/ USBT/ USCT/ USEM/ USICT/ USHSS/ USMC/ USLLS/ USM&PMHS/ USMS/ USAP/ USE, GGSIP University.
- 2 Director- Academic Affairs/ Coordination/ Students' Welfare/ CDMS/ Development/ International Affairs/ CEPS/ Research and Consultancy/ Legal Aid / IUIIC, GGSIP University
- 3 Librarian, GGSIP University
- 4 Prof. P.K. Jhulka, (Retired), Max Institute of Cancer Care, 26-A Ring Road, Nirmal Puri, Nirmal Colony, Block -2, Lajpat Nagar-IV, New Delhi-110024
- 5 Prof. M.C. Sharma, 109, Nav Shakti Sadan, Sector 13, Rohini, New Delhi-110085
- 6 Prof. Karmeshu, (Retired), 150, Deepali, Road No. 42, Pitampura, Delhi-110034
- 7 Sh. Arvind Misra, 5/101, Mathura Road, Agra-282002
- 8 Shri. Sandeep Gupta, 100 UB Jawahar Nagar, Delhi-110007
- 9 Prof. Rajiv Bhat, School of Biotechnology, Jawaharlal Nehru University, New Delhi
- 10 Prof. (Dr.) Pradeep Kulshrestha, Dean, School of Law, Sharda University, Plot No. 32 & 34, Knowledge Part-III, Greater Noida-201306 (UP)
- 11 Ar. Rupal S. Randhawa, 204-A, Pocket B, Mayur Vihar, Phase-2, New Delhi-110091
- 12 Dr. Jagdish Lal Gupta, CP-18, Maurya Enclave, Pitam Pura, Delhi-110034.
- 13 Prof. M. Afzal Wani, University School of Law and Legal Studies, GGSIP University
- 14 Prof. Prodyut Bhattacharya, University School of Environment Management, GGSIP University
- 15 Prof. Amit Prakash Singh, University School of Information Communication & Technology, GGSIP University
- 16 Prof. Shalini Garg, University School of Management Studies, GGSIP University.
- 17 Prof. Lisa P. Lukose, University School of Law and Legal Studies, GGSIP University.
- 18 Prof. M.N. Hoda, Director, Bharti Vidhyapeeth's Institute of Computer Application & Management, A-4, Paschim Vihar, Rohtak Road, New Delhi-63.
- 19 Prof. Sonia Jindal, Principal, Gitarattan Institute of Advanced Studies and Training, Rohini, Delhi-85.
- 20 Prof. Ravi K. Dhar, Director, Jagannath International Management School, OCF, Pocket-9, Sector-B, Vasant Kunj, New Delhi-110070.
- 21 Prof. Maharaj Krishen Bhat, Director, Maharaja Agrasen Institute of Management Studies, Maharaja Agrasen Camp, Plot No. 1, Sec-22, Rohini, Delhi.

Copy for information of the Competent Authority:

- (i) AR to the Vice Chancellor Secretariat for kind information of Hon'ble Vice Chancellor, GGSIP University.
- (ii) AR to the Registrar office for information of Registrar, GGSIP University

  
**(Shikha Agarwal)**  
**Dy. Registrar (Coordination)**

**GURU GOBIND SINGH INDRAPRASTHA UNIVERSITY**  
**SECTOR – 16 C, DWARKA, NEW DELHI - 110078**



**FIFTIETH (50<sup>th</sup>) MEETING OF THE ACADEMIC COUNCIL**

**DATE : 11.06.2021**

**TIME : 11:00 AM**

**MINUTES OF 50<sup>th</sup> MEETING OF THE ACADEMIC COUNCIL**

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change in the duration of the MCA programme from 3 years to 2 years w.e.f. Academic Session 2020-2021.

**Agenda Item No. AC 50.27:**      **To ratify the Scheme & Syllabus of Ph.D. course work atUSIC&T for the Academic Session 2020-2021 onwards.**

The Academic Council ratified the Scheme & Syllabus of Ph.D. course work atUSIC&T w.e.f. Academic Session 2020-2021.

**Agenda Item No. AC 50.28:**      **Change in nomenclature of PhD degree offered by USEM from Ph.D. in Environment Management to Ph.D. in Environmental Science**

The Academic Council considered and approved the change in nomenclature of Ph.D. degree offered by USEM from Ph.D. in Environment Management to Ph.D. in Environmental Science.

**Agenda Item No. AC 50.29:**      **Revised Scheme of Examination and Syllabus of M.Sc. Environment Management as per the LEARNING OUTCOME BASED CURRICULUM FRAMEWORK (LOCF)**

The Academic Council considered and approved the Revised Scheme of Examination and Syllabus of M.Sc. Environment Management as per the LEARNING OUTCOME BASED CURRICULUM FRAMEWORK (LOCF) w.e.f. Academic Session 2021-22.

**Agenda Item No. AC 50.30:**      **Revised Scheme of Examination and Syllabus of M.Sc. Biodiversity and Conservation as per the LEARNING OUTCOME BASED CURRICULUM FRAMEWORK (LOCF)**

The Academic Council considered and approved the Revised Scheme of Examination and Syllabus of M.Sc. Biodiversity and Conservation as per the LEARNING OUTCOME BASED CURRICULUM FRAMEWORK (LOCF) w.e.f. Academic Session 2021-22.

**Agenda Item No. AC 50.31:**      **Revised Scheme of Examination and Syllabus of M.Sc. Natural Resource Management as per the LEARNING OUTCOME BASED CURRICULUM FRAMEWORK (LOCF)**

The Academic Council considered and approved the Revised Scheme of Examination and Syllabus of M.Sc. Natural Resource Management as per the LEARNING OUTCOME BASED CURRICULUM FRAMEWORK (LOCF) w.e.f. Academic Session 2021-22.

**Agenda Item No. AC 50.32:**      **Syllabus, Course code and credits of the course Environmental Studies (as proposed by the UGC and AICTE) to be offered to all the**



Scheme and Syllabus  
For  
Course work to fulfill the requirement  
Of  
Doctor of Philosophy (Ph.D.)  
In  
IT/CSE/ECE/MAE/Computer Application



University School of Information, Communication & Technology  
Guru Gobind Singh Indraprastha University, New Delhi  
[www.ipu.ac.in](http://www.ipu.ac.in)

## **Programme Outcomes:**

- PO1: Demonstrate substantive knowledge and ability to teach courses in their area of research / specialization.
- PO2: Apply analytical and methodological skills to evaluate and conduct research in their area of specialization and other related areas.
- PO3: Independently design and conduct original research in their area of specialization.
- PO4: Demonstrate the ability to communicate the results of their research in a clear and effective manner.
- PO5: Apply the understanding for the high ethical concerns and standards in carrying out engineering research, teaching and service.



USICT proposes following courses as course work to fulfill the requirement of course work as required by clause 7 of PhD Ordinance 2017 (<http://ipu.ac.in/norms/phdbom210717.pdf>).

Sr.no.	Paper Code	Paper Name	L	T/P	Credits	Load (hrs.)/week
<b>Core Papers</b>						
1.	PhDICT-101	Research Methodology	4	0	4	4
2.	PHDICT-102	Research and Publication Ethics	1	2	2	2
<b>Elective Paper (Choose a subject as approved by supervisor and RAC)</b>						
3.	Any subject from the approved syllabus of M.Tech. course of IT/CSE/ECE/RA					
4.	Any course from NPTEL offered at ( <a href="https://nptel.ac.in/">https://nptel.ac.in/</a> ) A course of 4 weeks shall be counted equivalent to 1 credit.					
5.	Any relevant course from SWAYAM offered at ( <a href="https://swayam.gov.in/">https://swayam.gov.in/</a> ) A course of 4 weeks shall be counted equivalent to 1 credit.					
6.	Any relevant course from Coursera offered at ( <a href="https://www.coursera.org/">https://www.coursera.org/</a> ) A course of 16-18 hrs shall be counted equivalent to 1 Credit.					

1. Examination for the course(s) offered at sr. no. 1, 2 and 3 shall be conducted by University examination division as per rules laid down in PhD Ordinance (clause 7.10-7.12)
2. Scholar desire to study course work must submit their application to Dean, USICT/Principal of College through concerned supervisor and RAC before 1<sup>st</sup> week of commence of respective semester on prescribed form.
3. Scholar desire to study through NPTEL/SWAYAM, should request concerned RAC for approval. List of course(s) approved by various RAC shall be approved by SRC. List of approved courses(s) along with certificate shall be forwarded to examination division for transferring the credit in marksheet/certificate if marks are a part of the marksheet/certificate,
4. If scholar failed to submit passed certificate from respective on-line portal in same semester, scholar is free to repeat a course or opt for another course from elective list (sr. no. 4-6) in next semester.
5. Wherever Marks is not awarded by examining body, RAC concerned shall conduct an examination of the scholar and marks awarded as NUES and submitted for approval of SRC. The approved marks shall be forwarded to the examination division of the University.
6. The awarded marks shall be forwarded by SRC to Examination division for printing in Marksheet.

*NOTE: (Relevant points from the PhD ordinance 2017)*

1. The credit Assigned to the PhD course work shall be a minimum of 08 credits and a maximum of 16 credits
2. In the course work, a minimum of 4 credits shall be assigned to one or more courses on Research Methodology which could cover areas such as quantitative methods, computer applications, research ethics and review of published research in the relevant field, training, field work, etc. Other course shall be advanced level courses preparing the students for PhD degree.
3. PhD scholar has to obtain minimum of B+ grade in the course work in order to be eligible to continue in the programme.

Paper ID:  
Paper Code:PhDICT-101

L	T	C
4	0	4

Skill Development / Employability

**Subject: Research Methodology**

Maximum Marks: 75

CO1: To Develop an experiment model using Probabilities set Theory.  
CO2: To Develop a probability distribution function for given application.  
CO3: To develop a model for Hypothesis Testing  
CO4: To Develop a regression model for engineering application

### Unit I

Experiments, Models, and Probabilities Set Theory, Applying Set Theory to Probability , Probability Axioms ,Some Consequences of the Axioms , Conditional Probability Independence, Independent Trials , Discrete Random Variables, Probability Mass Function Cumulative Distribution Function (CDF) Functions of a Random Variable, Expected Value of a Derived Random Variable ,Variance and Standard Deviation ,Conditional Probability Mass Function

### Unit II

Continuous random variables : The Cumulative Distribution Function , Probability Density Function, Expected Values , Gaussian Random Variables, Pairs of Random Variables: Joint Cumulative Distribution Function, Joint Probability Mass Function, Joint Probability Density Function

### Unit III

Hypothesis Testing, hypothesis testing for single populations, Statistical inference about two populations. Non-parametric tests: Runs test, Mann Whitney U-test , Friedman test, Wilcoxon test

### Unit IV

The Simple Regression Model. Multiple Regression Analysis: Estimation, Multiple Regression Analysis: Inference, Multiple Regression Analysis: OLS Asymptotics.. Multiple Regression Analysis with Qualitative Information: Binary (or Dummy) Variables. Heteroskedasticity

Text Books:

1. Roy D. Yates, David J. Goodman, Probability and Stochastic Processes : A Friendly Introduction for Electrical and Computer Engineers, Second edition, John Wiley and Sons,2005
2. Jeffery M. Wooldridge, Introductory Econometrics, New York, South Western, 4<sup>th</sup> edition, 2002
3. Ken Black: Business Statistics for contemporary decision making, Wiley India, 5<sup>th</sup> edition,2009



Paper ID:  
Paper Code: PhDICT-102

L	T/P	C
1	2	2

**Subject: Research and Publication Ethics**

Maximum Marks: 75

Course Outcomes:

- CO1: To develop a Ethics for Scientific research
- CO2: To develop the skills for ethical publication
- CO3: To learn copyright and self-archiving policies for open access publishing
- CO4: To learn Impact factor of Journal and indexing of Database

## THEORY

### Unit-1:

Philosophy and Ethics: Introduction to philosophy: definition, nature and scope, concept, branches.  
Ethics: definition, moral philosophy, nature of moral judgments and reactions  
Scientific Conduct: Ethics with respect to science and research, Intellectual honesty and research integrity, scientific misconducts: Falsification, Fabrication, and Plagiarism (FFP), Redundant publications: duplicate and overlapping publications, salami slicing, Selective reporting, and misrepresentation of data

### Unit-2:

Publication Ethics: Publications ethics: definition, introduction and importance, Best practices/ standards setting initiatives and guidelines: COPE, WAME, etc., Conflicts of interest, Publication misconduct: definition, concept, problems that lead to unethical behaviour and vice versa, types, Violation of publication ethics, authorship and contributor ship, Identification of publication misconduct, complaints and appeals. Predatory publishers and journals

## Tutorial/Practical

### Unit-3:

Open Access Publishing :Open Access Publications and initiatives, SHERPA/ RoMEO online resource to check publisher copyright & Self-archiving policies, Software tool to identify predatory publications developed by SPPU, Journal finder/ journal suggestion tools viz. JANE, Elsevier Journal Finder, Springer Journal Suggested, etc.

Publication Misconduct: Subject Specific ethical issues, FFP, authorship, Conflicts of interest, Complaints and appeals: examples and fraud from India and abroad (Through Group Discussions).Use of plagiarism software like Turnitin, Urkund and other open source software tools (Through Software Tools)

### Unit-4:

Databases : Databases Indexing databases, Citation databases: Web of Science, Scopus, Etc.  
Research Metrics: Impact Factor of journal as per Journal Citation Report, SNIP, SJR, IPP, Cite Score.  
Metrics: h-index, g-index, i10 index, altimetric.

References:

1. Professional Ethics by R. Subramanian, Oxford Press
2. Textbook of Research Ethics by Loue Sana, Springer 2002
3. <https://www.springer.com/gp/authors-editors/authorandreviewertutorials/submitting-to-a-journal-and-peer-review/publication-ethics/10285588>

**University School of Information, Communication & Technology**  
**Guru Gobind Singh Indraprastha University, Dwarka, Delhi**

**Application form for Course work**

**Semester (Odd/Even):** \_\_\_\_\_

**AY:** \_\_\_\_\_

1. Name of the Scholar : \_\_\_\_\_
2. Enrollment No. : \_\_\_\_\_
3. Mode of Study : Part Time/Full Time
4. Discipline : \_\_\_\_\_
5. Topic of Research : \_\_\_\_\_
6. Mobile No. : \_\_\_\_\_
7. Email ID : \_\_\_\_\_
8. Title of Paper studied as course work during PhD Programme:

Sr. No.	Title of Subject	Paper Code/ NPTEL/ SWAYAM/ COURSERA	Credit earned
1.			
2.			
3.			
4.			

9. Title of Paper proposed to study as course work in current semester:

Sr. No.	Title of Subject	Paper Code/ NPTEL/ SWAYAM/ COURSERA	Credit
1.			
2.			
3.			
4.			

(Signature of Scholar)

Forwarded by Supervisor

The above subjects are recommended to study as course work

\_\_\_\_\_  
(Name and Signature of Members of RAC)

Forwarded by PhD Programme Coordinator

The SRC in its meeting held on \_\_\_\_\_ approved the above subjects as course work.

**Dean, USICT**