

**Advertisement for Admission into Ph.D. Program 2024-25**

Applications are invited from eligible candidates, for admission into Ph.D. program of OUTR, Bhubaneswar, for the session 2024-25, in the following Schools/ Departments, based on the area of specialization and category, as specified below. Interested candidates may apply online (in the specified Google Form only), within the specified period, as per guidelines indicated below.

1. School/ Department/ Research Group and Area of Specialization:

Sl. No.	School/ Department	Research Group	Area of Specialization
1	School of Basic Sciences and Humanities	Physics	Condensed Matter of Physics
		Chemistry	Materials Chemistry, Inorganic Chemistry
		English	Indian English Fiction, English Language Teaching, Professional Communication
2	School of Computer Sciences	Image Processing	Medical Image Processing, Fractal Geometry, Pattern Recognition
		Distributed System	Cloud Computing, Wireless Sensor Networks, Edge computing, Internet-of-Things, Data Analytics
		Privacy and Security	Cryptography, Security in Biochip, Blockchain
		Data Science	Data analytics, Machine Learning, Big Data
3	School of Electrical Sciences	Power System Engineering	Power System Protection, Smart Grid, PMU, WAMs, HVDC & FACTs Devices, Renewable Energy Sources, Micro-grid Protection, Power Quality, Application of Soft Computing and Artificial Intelligent Techniques, Power System Optimization and Control
		Power Electronics and Drives	Power Electronics and Control of Electric Drives, Renewable Energy Systems, Switched Mode Power Converters, Design of Integrated Magnetics, Application of Power Electronics in Power Systems, Grid Interactive Converters, Multi-level Inverters, Renewable Energy and Energy Storage, Electrical Drive Systems, Digital Control of Power Electronics, Electric Vehicle Subsystems
		Energy System Engineering	Integration & Control of Renewable Energy Systems, Design & Development of Smart Controllers for Micro-grid/Smart Grid Systems, Control of Active Distribution Systems, Smart Energy Management in Hybrid AC/ DC Micro-grid Systems, Electric Vehicles, Application of Soft Computing and Artificial Intelligent Techniques, Power Quality, Energy Storage, DC-DC Converter for renewable energy sources, Battery Energy Management System
4	School of Electronic Sciences	Instrumentation and Control	Instrumentation, Process Control, Control System Engineering, Analog Instrumentation
		Communication Engineering	Communication Engineering, Signal Processing, Wireless Network, Optical Communication, Image Processing
		VLSI & Embedded System	Nano Science, VLSI Device, Architecture, Low Power VLSI
5	School of Infrastructure and Planning	Water Resources	Water Resources Engineering
6	School of Mechanical Sciences	Design	Design, Vibration, Tribology, Robotics, Composite Material, AI
		Thermal	CFD, Conjugate Heat Transfer Fluid and Thermal, Renewable Energy, IC Engine and Alternative Fuel, Thermal Science and Engg.
		Production	Production, Mechatronics, Robotics
7	Department of Biotechnology	Systems Biology and Computational Medicine	Computational Systems Biology, Cellular Biophysics and Metabolism
8	Department of Textile Engineering	Mechanical Processing of Textile	Fabric Manufacturing, Textile Composites, Technical Textiles, Clothing comfort, Fibre Science
		Chemical Processing of Textile	Textile Chemistry, Applied Colour Science, Image Processing and IoT applications, Fibre Science



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Candidates are required to satisfy minimum educational qualification requirements and the eligibility criteria along with other prescribed norms as per the Ph.D. Regulation 2023-24 (www.outr.ac.in) for admission into the Ph.D. program. Mere possession of minimum educational qualifications and/ or eligibility criteria do not confirm admission into Ph.D. program. The decision of the authority in this regard is final and binding.

2. Program Details:

Sl. No.	Category of Ph.D.	Eligibility Criteria/ Other Requirements
1	Full Time Ph.D. (Regular)	Candidates without any employment and having desirable educational qualification, are eligible under this category. Such candidates are required to furnish an undertaking (Form No. OUTR-PhD-03/5.3.a), during the admission into Ph.D. program.
2	Full Time Ph.D. (Sponsored)	Candidates engaged as a Project Fellow in OUTR and having desirable educational qualification, are eligible for admission under this category. Such candidates are required to furnish an Undertaking/ NOC (Form No. OUTR-PhD-04/5.3.b), during the admission into Ph.D. program. OR Candidates (Regular employee of academic/ research organizations, external to OUTR), having desirable educational qualification, and with a minimum of two years' job experience in the current organization after passing the qualifying degree are eligible under this category. Such candidates are required to furnish an Undertaking/ NOC (Form No. OUTR-PhD-04/5.3.b), during the admission into Ph.D. program.
3	Part Time Ph.D. (Sponsored)	Candidates (Regular employee/ Project Fellow of academic/ research organizations, external to OUTR), having desirable educational qualification, and with a minimum of two years' job experience in the current organization after passing the qualifying degree are eligible under this category. Such candidates are required to furnish an NOC (Form No. OUTR-PhD-05/5.3.c), during the admission into Ph.D. program.
4	Part Time Ph.D. (Self-Sponsored)	Candidates (Regular employee of OUTR or those who do not have any regular employment), having desirable educational qualification, are eligible under this category. Such candidates are required to furnish an undertaking (Form No. OUTR-PhD-06/5.3.d), during the admission into Ph.D. program.
5	Executive Ph.D. (Sponsored)	Candidates (Regular employee of any organization other than academic/ research organizations), having Master's degree, with a minimum of five years' job experience out of which at least two years' job experience in the current organization after passing the Master's degree, are eligible under this category. Such candidates are required to furnish an NOC (Form No. OUTR-PhD-07/5.3.e), during the admission into Ph.D. program. OR Candidates (Regular employee of any organization), having Bachelor's degree in Engineering/ Technology, with a minimum of ten years' job experience out of which at least two years' job experience in the current organization after passing the Bachelor's degree in Engineering/ Technology, are eligible under this category. Such candidates are required to furnish an NOC (Form No. OUTR-PhD-07/5.3.e), during the admission into Ph.D. program.

3. Desirable Educational Qualification:

The minimum educational qualifications (Qualifying Degree) required for seeking admission to the Ph.D. Program under all Category in respect of different disciplines are given below. Preference will be given to candidates having qualified in UGC-NET (including JRF)/ UGC-CSIR NET (including JRF)/ SLET/ GPAT/ GATE/ Inspire fellow (DST, GoI)/ CAT/ NDF examinations.

- i) **Qualifying Degree:** The requirement of the qualifying degree for admission into Ph.D. program under various Schools/ Department is as follows.
- The qualifying degree for admission into Ph.D. program in various Schools/ Departments in Engineering/ Technology is Masters' degree in Engineering/ Technology.
 - The qualifying degree for admission into Ph.D. program under Computer Science and Applications is MCA/ M.Sc. (Computer Science)/ Masters' degree in Computer Science Engineering/ Information Technology.
 - The qualifying degree for admission into Ph.D. program under School of Basic Sciences and Humanities is Master's degree in Physics/ Chemistry/ Mathematics/ English.



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- ii) Candidates belonging to SC/ ST/ Differently-Abled category as notified by Government of Odisha from time to time shall possess a qualifying degree from an Institute/ University recognized by UGC/ AICTE/ Central Government, with a minimum CGPA of 6.0 out of 10 or 55% of aggregate marks in respective discipline, for admission into Ph.D. program.
- iii) All other Candidates shall possess a qualifying degree from an Institute/ University recognized by UGC/ AICTE/ Central Government, with a minimum CGPA of 6.5 out of 10 or 60% of aggregate marks in respective discipline, for admission into Ph.D. program.
- iv) Candidates applying for Executive Ph.D., with Bachelors' degree in Engineering/ Technology (B.E./ B.Tech.) from an Institute/ University recognized by UGC/ AICTE/ Central Government, shall possess a minimum CGPA of 6.5 out of 10 or 60% of aggregate marks in respective discipline, for admission into Ph.D. program under Executive Ph.D. category.

4. Application Process:

- (i) Interested candidates may apply online, in the prescribed format, by filling the online application form in the google link <https://tinyurl.com/OUTRPhD2024>, on or before **03.07.2024**.
- (ii) The candidates are required to upload the following documents in the application form:
 - a) Certificates and Grade sheets / Mark sheets of the 10th/ Equivalent Examination.
 - b) Certificates and Grade sheets / Mark sheets of the +2/ Equivalent Examination.
 - c) Certificates and Grade sheets / Mark sheets of Bachelor's Degree.
 - d) Certificates and Grade sheets / Mark sheets of Master's Degree.
 - e) Certificate of UGC-NET (including JRF)/ UGC-CSIR NET (including JRF)/ Inspire fellow (Department of Science and Technology, GoI)/ SLET /GPAT/ GATE/ CAT/ NDF tests, if applicable.
 - f) SC/ST caste certificate, if applicable.
 - g) Differently able certificate, if applicable.
- (iii) The applications received from the candidates shall be processed by the Ph.D. Cell, OUTR, and the list shall be notified in the website (www.outr.ac.in), latest by **05.07.2024**, indicating the candidates found suitable for online payment of Application Fee.
- (iv) The selected candidates have to deposit a non-refundable application fee in online mode (by clicking the tab "**Online Fee Payment**" in the website (www.cet.edu.in), during **06.07.2024 to 08.07.2024**, failing which their application shall not be considered for scrutiny and admission into Ph.D. program 2024-25. The application fee to be deposited by candidates of various categories is as indicated below.
 - Candidates belonging to SC/ ST/ Differently-abled category: **Rs.200/-** (Rupees Two Hundred only)
 - Candidates belonging to all other categories: **Rs.500/-** (Rupees Five Hundred only)

5. Mode of Selection:

- (i) The applications of the candidates (those who successfully pay the application fee) shall be scrutinized by the DRC of concerned Schools/ Departments for preparing the following list, which will be published in the website (www.outr.ac.in).
 - List-1: Candidates eligible to appear in the OUTR-Ph.D. Entrance Test (OUTR-PET)
 - List-2: Candidates eligible for exemption of OUTR-PET.
- (ii) The following category of candidates are exempted from appearing the OUTR-PET.
 - Candidates having qualified in the UGC-NET (including JRF)/ UGC-CSIR NET (including JRF)/ Inspire fellow (Department of Science and Technology, GoI)/ SLET /GPAT/ GATE/ CAT/ NDF tests, and having qualifying percentile scores in their respective validity periods.
 - Regular employees of OUTR.
- (iii) The candidates of List-1, are required to appear in the OUTR-PET, which will be conducted at OUTR campus, in physical mode, on a computerized based system. The duration of OUTR-PET shall be of 90 minutes, consisting of 70 numbers of subject specific multiple-choice questions, each carrying 01 (one) mark. The correct answer will fetch 01(one) mark and incorrect/ unanswered question will fetch 0 (zero) mark. The schedule, venue, and the result sheet (List-3) of OUTR-PET shall be published in the website (www.outr.ac.in). The eligibility criteria, academic qualifications, selection criteria etc. will be governed as per the Ph.D. Regulations of OUTR.



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- (iv) The candidates of List-2 and List-3, shall be called for appearing the Pre-Ph.D. admission interview, to be conducted in respective Schools/ Departments of OUTR, in physical mode, for consideration of admission into the Ph.D. program, subject to fulfilment of other norms. These candidates are required to submit a set of self-attested certificates in the respective School/ Department, during the Pre-Ph.D. admission interview and also produce the originals for verification. The schedule, venue, result of the Pre-Ph.D. admission interview, and details of admission process will be notified in the website (www.outr.ac.in).

6. Important Dates:

Closing Date of Applications	: 03.07.2024
Notification of List of candidates eligible for online payment of Application Fee	: 05.07.2024
Starting Date for online payment of Application Fee	: 06.07.2024
Closing Date for online payment of Application Fee	: 08.07.2024
Notification of List of candidates eligible to appear OUTR-PET	: 10.07.2024
Tentative Date of OUTR-PET	: 17.07.2024
Notification of List of candidates to appear Pre-Ph.D. admission interview	: 18.07.2024
Tentative Date of Pre-Ph.D. admission interview	: 19.07.2024
Notification of List of candidates selected for Ph.D. admission	: 20.07.2024
Date of Ph.D. Admission	: 23.07.2024

N.B.:

At present, no stipend is available at OUTR for Full Time (Regular) Ph.D. program. However, the candidates selected under Full Time (Regular) Ph.D. program may avail their fellowship/ stipend, if they get it from any funding agencies. Hostel accommodation will be provided as per availability.

Sd/-

Registrar

Copy to: Notice Board, All HOSs/ HODs/ Deans/ CoE/ CoF for information and necessary action.

Sd/-

Registrar



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Form No: OUTR-PhD-03/5.3.a

Undertaking for Candidates seeking Admission into Full Time Ph.D. (Regular)

I, Mr./ Ms/ Mrs Son/ Daughter of
Vill..... P.O..... Dist....., provisionally
selected for admission into **Full Time Ph.D. (Regular)** in the School/ Department of
..... of OUTR, Bhubaneswar, do hereby undertake to abide
the following points during the period of my research at OUTR, Bhubaneswar.

1. That, during the period of my research work in OUTR, Bhubaneswar, I shall not take up any kind of employment and/or admission into any other programme elsewhere, failing which, my admission shall be cancelled immediately.
2. That, I shall not resort to any indisciplinary activities or any other acts of misconduct in the University premises or outside. In case, it is found that I am involved in such activities, or any other acts of misconduct in the University premises or outside, action as deemed to fit will be taken against me as per University rule.
3. That, I shall bring it to the notice of the appropriate authority (through the concerned HOS/ HOD), in the event I apply for any scholarship/ fellowship/ stipend/ assistantship from any organization during the period of my research work at OUTR, Bhubaneswar.

I do hereby declare that the information provided above is true to the best of my knowledge and belief.

Signature of the Candidate with date

Mobile No:

Email ID:

Signature of Parent/ Guardian with date

Mobile No:

Email ID:



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Form No: OUTR-PhD-04/5.3.b

Undertaking/ Consent/ NOC for Candidates seeking Admission into Full Time Ph.D. (Sponsored)

This is to certify that Mr./ Ms/ Mrs Son/ Daughter of Vill..... P.O..... Dist....., provisionally selected for admission into **Full Time Ph.D. (Sponsored)** in the School/ Department of of OUTR, Bhubaneswar, is a bonafide employee/ project fellow of _____ and is currently working in this organization/ institute since _____ .

His/ her designation is _____.

This certificate is being issued on his/ her request to enable him/ her to pursue Ph.D. in Odisha University of Technology and Research, Bhubaneswar and is solely for his/ her personal requirement.

We do not have any objection for his/ her admission and pursuing the Ph.D. Programme. The study leave is sanctioned for the period of three years, with full salary/ without salary.

Signature of Principal Investigator of the Project

Signature of Head of the Organization

(Date and seal):

(Date and seal):

Name:

Name:

Designation:

Designation:

Name and Address of the Organization:

Name and Address of the Organization:



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Form No: OUTR-PhD-05/5.3.c

NOC for Candidates seeking Admission into Part Time Ph.D. (Sponsored)

This is to certify that Mr./ Ms/ Mrs Son/ Daughter of
..... Vill..... P.O.....
Dist....., provisionally selected for admission into **Part Time Ph.D. (Sponsored)** in the
School/ Department of of OUTR, Bhubaneswar, is a
bonafide employee of _____ and is currently working in this
organization since _____ .

His/ her designation is _____.

This certificate is being issued on his/ her request to enable him/ her to pursue Ph.D. in Odisha
University of Technology and Research, Bhubaneswar and is solely for his/ her personal requirement.

We do not have any objection for his/ her admission and pursuing the Ph.D. Programme. The study
leave is sanctioned (with full salary/ without salary) in order to meet the residence requirements of
Ph.D. program.

Signature of Head of the Organization

Date and seal:

Name:

Designation:

Name and Address of the Organization:

N.B. PRESCRIBED RESIDENCE PERIOD (for Part Time Ph.D./ Executive Ph.D.):

- a) **Pre-Registration Residence Period:** A candidate under Part Time/ Executive Ph.D. shall put in a minimum thirty days of residence in one or more visits to the School/ Department in every semester during the coursework period, until he/she gets registered for the Ph.D. program. This residence requirement shall be utilized by the candidate for the purpose of coursework preparation and appearing the semester examinations, comprehensive examination, registration seminar, etc.
- b) **Post-Registration Residence Period:** A research scholar under Part Time Ph.D. shall put in a minimum seven days of residence in one or more visits to the School/ Department in every semester, after he/she gets registered for the Ph.D. program. However, a research scholar under Executive Ph.D. shall visit the concerned School/ Department, as and when required by the DSC, after he/she gets registered for the Ph.D. program. This residence requirement shall be utilized by the candidate for the purpose of formulation/ investigation of the research problem, review by the DSC till the submission of the final synopsis.



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Form No: OUTR-PhD-06/5.3.d

PART-A: Applicable for Regular Faculty members of OUTR

Undertaking for Candidates seeking Admission into Part Time Ph.D. (Self-Sponsored)

I, Mr./ Ms/ Mrs Son/ Daughter of
Vill..... P.O..... Dist....., provisionally
selected for admission into **Part Time Ph.D. (Self-Sponsored)** in the School/ Department of
..... of OUTR, Bhubaneswar, do hereby undertake that I shall
continue my research work in OUTR, Bhubaneswar at my own expenses only and I shall not seek any
kind of financial support from the University for any activities / expenses related to my Ph.D. work.

Signature of the Candidate with date

Mobile No:

Email ID:



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Form No: OUTR-PhD-06/5.3.d

PART-B: Applicable for Regular Nonteaching staff members of OUTR

Affidavit for Candidates seeking Admission into Part Time Ph.D. (Self-Sponsored)

I, Mr./ Ms/ Mrs Son/ Daughter of
Vill..... P.O..... Dist....., presently
working asin (School/Department)..... provisionally
selected for admission into **Part Time Ph.D. (Self-Sponsored)** in the School/ Department of
..... of OUTR, Bhubaneswar, do hereby undertake that I shall
continue my research work in OUTR, Bhubaneswar at my own expenses with the following terms and
conditions.

I, Mr./ Ms/ Mrs do hereby undertake that;

- i) I shall carry out my research work relating to Ph.D. program for my academic interest only.
- ii) I shall carry out my research work without hampering my normal duties.
- iii) I shall shoulder all the responsibilities of the University as assigned to me by the authorities of the University in due course of time.
- iv) I shall not accept any employment/ assignment outside the University during the period of my doctoral research work.
- v) I shall not demand any financial support to pursue my research work leading to Ph.D.
- vi) I shall not demand any financial benefit after completing my Ph.D.
- vii) I shall not claim/ demand any promotion in my present cadre by virtue of my Ph.D. degree.

Signature of Deponent
Name:.....
Address:.....
Telephone /Mobile:

Verification

Verified that the contents of this affidavit are true to the best of my knowledge and no part of the affidavit is false and nothing has been concealed or misstated therein.

Verified at (Place) on this the(Day) of(Month).....(Year)

Signature of deponent

Solemnly affirmed and signed in my presence on this the... (Day)of.....(Month).....(Year)
after reading the contents of this affidavit.

OATH COMMISSIONER

(The affidavit form duly prepared in a non-judicial stamp paper of Rs. 10/- and signed by 1st class Magistrate or Notary should be submitted by the deponent during admission)



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Form No: OUTR-PhD-07/5.3.e

NOC for Candidates seeking Admission into Executive Ph.D. (Sponsored)

This is to certify that Mr./ Ms/ Mrs Son/ Daughter of
..... Vill..... P.O.....
Dist....., provisionally selected for admission into **Executive Ph.D. (Sponsored)** in the
School/ Department of of OUTR, Bhubaneswar, is a
bonafide employee of _____ and is currently working in this
organization since _____ .

His/ her designation is _____.

This certificate is being issued on his/ her request to enable him/ her to pursue Ph.D. in Odisha
University of Technology and Research, Bhubaneswar and is solely for his/ her personal requirement.
We do not have any objection for his/ her admission and pursuing the Ph.D. Programme. The study
leave is sanctioned (with full salary/ without salary) in order to meet the residence requirements of
Ph.D. program.

Signature of Head of the Organization

Date and seal):

Name:

Designation:

Name and Address of the Organization:

N.B. PRESCRIBED RESIDENCE PERIOD (for Part Time Ph.D./ Executive Ph.D.):

- c) **Pre-Registration Residence Period:** A candidate under Part Time/ Executive Ph.D. shall put in a minimum thirty days of residence in one or more visits to the School/ Department in every semester during the coursework period, until he/she gets registered for the Ph.D. program. This residence requirement shall be utilized by the candidate for the purpose of coursework preparation and appearing the semester examinations, comprehensive examination, registration seminar, etc.
- d) **Post-Registration Residence Period:** A research scholar under Part Time Ph.D. shall put in a minimum seven days of residence in one or more visits to the School/ Department in every semester, after he/she gets registered for the Ph.D. program. However, a research scholar under Executive Ph.D. shall visit the concerned School/ Department, as and when required by the DSC, after he/she gets registered for the Ph.D. program. This residence requirement shall be utilized by the candidate for the purpose of formulation/ investigation of the research problem, review by the DSC till the submission of the final synopsis.