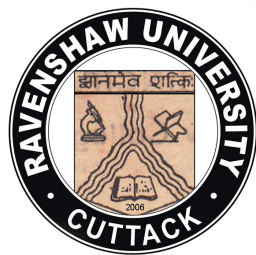


# ADMISSION INFORMATION BROCHURE 2017-18



## RAVENSHAW UNIVERSITY

CUTTACK – 753 003

**Oldest Institution of Higher Education in the State of  
Odisha: Currently Celebrating its 150<sup>th</sup> Year**

**Awarded “A” Grade by NAAC in 2017**



## Entrance Examination Center: Ravenshaw University, Cuttack

### IMPORTANT DATES

Last date for online application 15<sup>th</sup> May, 2017

### Exam Schedule

Subject / Course	Date	Time
MBA*	20/05/2017	9 AM – 11 AM
Part Time MBA**	21/05/2017	9 AM – 11 AM
Odia, Philosophy, English, ETC	22/05/2017	9 AM – 11 AM
Economics, Sociology, Computer Science, History	22/05/2017	2 PM – 4 PM
Physics, Hindi, Sanskrit	23/05/2017	9 AM – 11 AM
Commerce/ Entrepreneurship (There will be one examination for both Commerce and Entrepreneurship)	23/05/2017	2 PM – 4 PM
Psychology, Applied Geography, Political Science, MITM	24/05/2017	9 AM – 11 AM
Rural Development	24/05/2017	2 PM – 4 PM
Mathematics, Education, Zoology	25/05/2017	9 AM – 11 AM
Chemistry, Botany	25/05/2017	2 PM – 4 PM
Geology, Statistics, Biotechnology	26/05/2017	9 AM – 11 AM
Journalism and Mass Communication (JMC)	26/05/2017	2PM -4 PM
International Studies	27/05/2017	9AM – 11AM

\* For MBA, Group Discussion (GD) and Personal Interview (PI) will be conducted on the same day.

\*\* For Part-time MBA, candidates have to appear Personal Interview only.

#### Important Announcement:

The candidates are requested to report at least one hour before the commencement of examination.

**There is negative marking in the entrance test. For each wrong answer 0.25 mark will be deducted.**

**The candidates are required to bring the following documents with them positively to the Examination Hall:**

- i) Admit Card (to be downloaded by the candidate after the registration and successful payment of prescribed application fees.)
- ii) Identity proof (Voter I Card, Aadhar, Driving License or any other recognized document to prove identity of the candidate)

## 1 POSTGRADUATE COURSES

Towards making Ravenshaw an institution of excellence, Ravenshaw University offers the following Post Graduate Courses. The courses and number of seats (in parentheses) in each course at PG level are given below. Details about the departments are available at the Ravenshaw University website [www.ravenshawuniversity.ac.in](http://www.ravenshawuniversity.ac.in)

If there are less than 8 students in any subject under Self Financing Course, the course shall be cancelled and the admitted candidates will be required to take their TC and Course Fee (if deposited during admission). There will be no special consideration for their admission into any other subject.

**IMPORTANT: A candidate who was earlier admitted/ has already completed a Post graduate course in Ravenshaw University shall NOT be eligible to apply or take admission in any other Post graduate or graduate course in Ravenshaw University. If any such violation is detected later, the provisional admission of the candidate shall stand cancelled.**

### CATEGORYWISE DISTRIBUTION OF POST GRADUATE SEATS

	Subject	General	ST (22.5%)	SC (16.25%)	PH (3%)	ESM (1%)	SDP (1%)	Total
1.	Applied Geography	14	5	4	1	-	-	24
2.	Biotechnology (SF)	14	5	4	1	-	-	24
3.	Botany	14	5	4	1	-	-	24
4.	Chemistry	23	9	7	1	-	-	40
5.	Commerce	36	14	10	2	1	1	64
6.	Economics	46	19	14	3	1	1	84
7.	Education	23	9	7	1	-	-	40
8.	English	45	18	13	2	1	1	80
9.	Entrepreneurship (SF)*	19	7	5	1	-	-	32
10.	ETC	32	14	10	2	1	1	60
11.	Geology	9	4	3	-	-	-	16
12.	Hindi	19	7	5	1	-	-	32
	Hindi (SF)	5	2	1	-	-	-	8
13.	History	36	14	10	2	1	1	64
14.	International Studies (SF)	19	7	5	1	-	-	32
15.	MITM (SF)	19	7	5	1	-	-	32
16.	MJMC (SF)	23	9	7	1	-	-	40
17.	M.Sc. Comp Sc (SF)	19	7	5	1	-	-	32
18.	Mathematics	28	11	8	1	-	-	48
19.	MBA (SF)	32	14	10	2	1	1	60
20.	MCA (SF)	21	8	6	1	-	-	36
21.	Odia	36	14	10	2	1	1	64
	Odia (SF)	5	2	1	-	-	-	8
22.	Part Time MBA	17	7	5	1	-	-	30

	Subject	General	ST (22.5%)	SC (16.25%)	PH (3%)	ESM (1%)	SDP (1%)	Total
23.	<b>Philosophy</b>	19	7	5	1	-	-	<b>32</b>
24.	<b>Physics</b>	23	9	7	1	-	-	<b>40</b>
25.	<b>Political Sc.</b>	36	14	10	2	1	1	<b>64</b>
26.	<b>Psychology</b>	19	7	5	1	-	-	<b>32</b>
27.	<b>Rural Development</b>	23	9	7	1	-	-	<b>40</b>
28.	<b>Sanskrit</b>	19	7	5	1	-	-	<b>32</b>
	<b>Sanskrit (SF)</b>	5	2	1	-	-	-	<b>8</b>
29.	<b>Sociology</b>	19	7	5	1	-	-	<b>32</b>
30.	<b>Statistics</b>	9	4	3	-	-	-	<b>16</b>
31.	<b>Zoology</b>	14	5	4	1	-	-	<b>24</b>
	<b>Total =</b>	<b>740</b>	<b>289</b>	<b>211</b>	<b>38</b>	<b>8</b>	<b>8</b>	<b>1294</b>

**Commerce & Entrepreneurship (SF)\* Programmes run under commerce department. The applicants are required to apply once to appear the entrance examination, 2017.**

The details of P.G. Courses in Biotechnology, Computer Science, Electronics & Telecommunication (ETC), Information Technology Management (MITM), Journalism & Mass Communication, Rural Development, International Studies, Master in Computer Application (MCA), MBA, MBA (PT) and M.Com in Entrepreneurship are as follows:

- (i) **M.Sc. in Biotechnology (24):** Biotechnology, a comparatively new branch of science, is an emerging area. The objective is to create human resource to further research and teaching in Biotechnology. **The course fee is Rs.40,000/-per annum.**
- (ii) **M.Sc. in Computer Science (32):** This course offers a scope of vertical progression to the graduates in computer science and information technology by producing high quality software personnel to cater to the needs of IT industries. **The course fee is Rs.30,000/- per annum.**
- (iii) **M.Sc. in Information Technology Management (32):** This course aims at preparing students to pursue professional career in Software Design and Network Engineering. **The course fee is Rs.35,000/- per annum.**
- (iv) **M.Sc. in Electronics and Telecommunication (60):** This course aims at preparing students to pursue professional career in Electronics and Telecommunication. **The course fee is Rs.35,000/- per annum.**
- (v) **M.A. in Journalism and Mass Communication (40):** This course provides a sound infrastructure for career-building in a wide range of activities covering print and electronic journalism, advertising and public relations, etc., and also imparts practical training. **The course fee is Rs. 25,000/- per annum.**
- (vi) **M.A in Rural Development (40):** Ravenshaw University started this Masters course in the academic session 2013-2014 in Economics Department. **The course fee is Rs.20,000/- per annum.**
- (vii) **M.A in International Studies (32):** This course aims at increasing the academic boundary of the university. **The course fee is Rs.20,000/- per annum.**
- (viii) **Master of Computer Applications (30):** Admission into the Course is made through the Odisha Joint Entrance Examination (OJEE). **The course fee is Rs. 30,000/- per annum.**

- (ix) **M.Com in Entrepreneurship (32):** This course has been introduced from the session 2016-2017 in the Department of Commerce. **The course fee is Rs.25, 000/- per annum.**
- (x) **M.A. in HINDI (8), SANSKRIT (8), ODIA (8) in self financing mode:** The course fee for these seats is **Rs.10, 000/- per annum** in self- financing mode.
- (xi) **MBA (60):** The two years full time MBA is the flagship program of the School of Management Studies benchmarked with the best B-Schools in the country. The course is spread over four semesters and includes a six weeks Summer Internship Program (SIP). The School offers specialisation in the areas of Marketing, HR, Finance, Operations, IT and Hospitality & Tourism in second year. A student has to opt for two out of the six areas of specializations. **Course fee: Rs. 3.25 Lacs for two years plus Departmental fee of Rs 15,000/- (One time).**
- (xii) **Part Time MBA (30):** The three years Part time MBA program is designed to cater to the needs of working professionals. **Course fee: Rs 30,000/-per year.**

## 2

### CANDIDATES TO BRING FOLLOWING DOCUMENTS TO PG ENTRANCE CENTRE

- i) **ADMIT CARD:** Candidates are required to bring the admit card to the Entrance Examination centre.
- ii) **IDENTITY PROOF:** Candidates are required to bring at least one ID Proof such as Voter Identity Card/ Aadhaar/ Driving License or any other recognized proof.
- iii) **Candidates will bring their own pen/pencil, etc; but no mobile phone other gadgets will be allowed inside the hall.**

**No other intimation shall be issued for appearing the entrance examination.**

The candidates are requested to report at the examination center (**Ravenshaw University Campus**) at least one hour before the commencement of examination.

## 3

### ELIGIBILITY FOR ADMISSION INTO DIFFERENT PG COURSES

**A student who was earlier admitted/ has passed one Postgraduate course in one subject from Ravenshaw University will not be allowed to apply for admission into another Undergraduate/ Postgraduate course in this University. If any such violation is detected later, the admission will stand cancelled.**

- (i) Admission into **Physics, Chemistry, Mathematics, Botany, Zoology, Geology, Commerce, Applied Geography, Economics, Education, English, Hindi, History, Odia, Philosophy, Political Science, Psychology, Sociology and Sanskrit** require second class honours with minimum 50% marks in the concerned subject.
- (ii) **Statistics:** Either Statistics or Mathematics as a subject with minimum 50% mark in the undergraduate level.

- (iii) **Biotechnology:** Honours in Biotechnology, Microbiology, Botany, Zoology, Chemistry or any other subject relating to Life Sciences with minimum 50% marks.
- (iv) **Computer Science and Information Technology Management (ITM):** Honours in Computer Science / ITM / IST or B.Tech. in Computer Science/ IT / Electronics / BCA with minimum 50% marks.
- (v) **Electronics and Telecommunication (ETC):** Honours in Electronics/ IST/ ITM/ Computer Science/ IT/ Physics/ Mathematics or B.Tech. in Electronics/ Computer Science/ IT or Equivalent with minimum 50% marks.
- (vi) **Journalism and Mass Communication (JMC):** Graduate in any discipline with minimum 50% marks in honours or 50% in aggregate (for students having no honours).
- (vii) **Master of Business Administration (MBA):** Graduate in any discipline with minimum 50% marks in honours or 50% in aggregate (for students having no honours).
- (viii) **Part-time MBA:** Graduate in any discipline with minimum 50% marks in honours or 50% in aggregate (for students having no honours) and two years of working experience after graduation.
- (ix) **Rural Development:** Graduate in any discipline with minimum 50% marks in honours or 50% in aggregate (for students having no honours).
- (x) **International Studies:** Graduate in any discipline with minimum 50% marks in honours or 50% in aggregate (for students having no honours).
- (xi) **Entrepreneurship:** Second class with minimum 50% marks in B.Com Honours.

**N.B:** Those who have passed the Three-year Degree Course Examination from a University/ Institution (situated outside the state of Odisha) where provision of teaching in Honours does not exist, will be eligible to apply for PG course provided they have taken the examination in the concerned subject with minimum of 8 papers carrying at least 800 marks, subject to the fulfillment of the minimum eligibility condition as laid down above.

**A relaxation of 5% of marks shall be given in favour of SC and ST applicants.**

## 4 SELECTION NORMS

- A. The merit list for admission into PG courses will be prepared on the basis of performance of the candidate in the entrance test only. In case of a tie the following conditions will be applied in order of preference.
  - i) Total number of correct answers secured.
  - ii) Total number of questions attempted.
- B. **For MBA,** A candidate may; (i) write Ravenshaw Management Aptitude Test (RMAT) or (ii) submit score card of CAT 2016/ XAT 2017/MAT 2016-17/CMAT 2016-17/ATMA 2016-17. A candidate of category (ii), if so desires, may choose to write RMAT at no extra cost. After this preliminary screening, shortlisted candidates will have to appear at Group Discussion (GD) and Personal Interview (PI). **For Part-time MBA,** the selection is based on the performance in Personal Interview (PI).

**Admission into any PG Course is provisional.**

**A candidate, once selected for provisional admission, will have to produce his/her final mark sheet and CLC/ TC/ Migration Certificate (as provided by the institution last attended) on the day of admission to prove his/her eligibility failing which he/she will not be admitted.**

## **5 RESERVATION OF SEATS**

Same as in the case of the UG programmes.

## **6 LAST DATE OF SUBMISSION**

Last date of submission of **online** application for admission into all PG courses is **15<sup>th</sup> May, 2017**. **There is no need to submit or send the hard copy of the application form and other documents. The original documents shall be verified at the time of admission.**

**The candidate is solely responsible for any wrong information provided in the application form which is liable to be cancelled.**

## **PATTERN OF QUESTIONS IN ENTRANCE TEST FOR P.G. COURSES**

- Multiple choice questions will be set in the Entrance Test. The responses to the questions shall be made on the OMR sheet by darkening the relevant oval in **blue or black ball point pen**. The duration of Entrance Test shall be of **two hours**.
- There shall be 100 questions and all are compulsory, each carrying one mark.

**There is negative marking in the entrance test. For each wrong answer 0.25 mark will be deducted.** The syllabi for Entrance Test in various subjects are same as the UG (Honours) syllabi of Ravenshaw University. The candidates are advised to check the same available in the Ravenshaw University website ([ravenshawuniversity.ac.in](http://ravenshawuniversity.ac.in)). For example, the candidates applying for M.Sc. in Applied Geography are required to follow UG (Honours) syllabi of Geography in the University website. However, the detailed syllabi for Entrance Test in the following subjects are given in **Annexure-I**.

(1) Biotechnology (2) Computer Science (3) Electronics and Telecommunication (ETC) (4) Information Technology Management (ITM) (5) International Studies (6) Journalism and Mass Communication (JMC), (7) Master of Business Administration (MBA) and (8) Rural Development.

## **7 PUBLICATION OF MERIT LIST AND DATES FOR COUNSELLING AND ADMISSION**

The results of the entrance examination will be published in the **University website and the notice boards** of the university tentatively **within 10 days after the completion of entrance test of all subjects** and the Merit List for admission into different PG courses along with the Dates for counseling and admission shall be published in the **website and the notice boards** of the university tentatively after 4 days of the publication of entrance examination results. Candidates are required to

check the merit list and the dates for counseling and appear for counseling for admission on the scheduled dates with required documents.

**NO SEPARATE INTIMATION SHALL BE ISSUED TO THE CANDIDATES FOR ATTENDING COUNSELLING/ADMISSION.**

The provisionally selected candidates will be required to take admission on the day of admission. No extension of date of admission is allowed. If a provisionally selected candidate fails to submit the required documents and admission fees on the specified dates of counseling, the claim for admission shall be forfeited. However, three days time will be given for wait-listed candidates only for the submission of CLC/TC, provided the candidate submits the proof of her/his admission in any other university/college.

**8 DOCUMENTS TO BE PRODUCED AT THE TIME OF COUNSELING/ ADMISSION**

Same as in the case of the Undergraduate admissions.

**9 PERIOD OF ADMISSION**

All admissions shall be completed tentatively by 12<sup>th</sup> August, 2017. In exceptional circumstances the Vice Chancellor may extend this deadline. However, no admission will take place after this date even if seats fall vacant.

**10 ADMISSION FEES**

Fees for admission into PG courses, to be collected at the time of admission, are as follows.

**Admission & Examination Fee Structure for P.G. (Regular Courses)**

<b>Arts (Non-practical Courses)</b>			
	<b>Admission Fee</b>	<b>Examination Fee</b>	<b>Total</b>
Boys	Rs.2450/-	Rs.400/-	Rs.2850/-
Girls/ SC/ ST	Rs.2150/-	Rs.400/-	Rs.2550/-
<b>Arts (Practical Courses)</b>			
Boys	Rs.4950/-	Rs.440/-	Rs.5390/-
Girls/ SC/ ST	Rs.4650/-	Rs.440/-	Rs.5090/-
<b>Science</b>			
Boys	Rs.4950/-	Rs.440/-	Rs.5390/-
Girls/ SC/ ST	Rs.4650/-	Rs.440/-	Rs.5090/-
<b>Commerce</b>			
Boys	Rs.2450/-	Rs.400/-	Rs.2850/-
Girls/ SC/ ST	Rs.2150/-	Rs.400/-	Rs.2550/-



### Admission & Examination Fee Structure for P.G. in Self-Financing Courses

	Admission Fee	Examination Fee	Total
ITM, Biotechnology, Computer Science, ETC, MCA & JMC – <b>Boys</b>	Rs.4950/-	Rs.1200/-	Rs.6150/-
ITM, Biotechnology, Computer Science, ETC, MCA & JMC – <b>Girls/ SC/ST</b>	Rs.4650/-	Rs.1200/-	Rs.5850/-
Rural Development & International Studies – <b>Boys</b>	Rs.2450/-	Rs.1200/-	Rs.3650/-
Rural Development & International Studies – <b>Girls/ SC/ST</b>	Rs.2150/-	Rs.1200/-	Rs.3350/-

### Annual Course Fee for Self-Financing Courses

MBA	Rs.1.75 lakh (1 <sup>st</sup> Year) Rs.1.50 lakh (2 <sup>nd</sup> Year)
MBA (Part Time)	Rs.30,000/-
Journalism and Mass Communication (JMC)	Rs.25,000/-
Information Technology Management (ITM)	Rs.35,000/-
Biotechnology	Rs.40,000/-
Computer Science	Rs.30,000/-
Electronics and Telecommunication	Rs.35,000/-
Rural Development	Rs.20,000/-
MCA	Rs.30,000/-
International Studies	Rs.20,000/-
Hindi (SELF FINANCING MODE)	Rs.10,000/-
Sanskrit (SELF FINANCING MODE)	Rs.10,000/-
Odia (SELF FINANCING MODE)	Rs.10,000/-
Commerce (SELF FINANCING MODE)	Rs.25,000/-
Entrepreneurship (SELF FINANCING MODE)	Rs.25,000/-

**Note:** (i) The above fee structure is tentative and liable to change. Processing charge of **Rs. 500** will be deducted from course fee (of self financing courses only) if the candidate wishes to leave the course on or before the last date of admission, i.e., 12<sup>th</sup> August 2017. However, after the last date of admission the course fee is not refundable.

## 11 GENERAL RULES [PG]

1. Qualifying the entrance test shall not, ipso facto, entitle a candidate to get enrolment in the department concerned where he/she intends to seek admission. It will be the responsibility of the candidate to ensure his/her eligibility and fulfillment of such other conditions as may be prescribed for admission in the rules and regulations of the university.
2. Once paid, the PG application and admission fee shall in no case be refunded. However, in case of cancellation of admission the course fee may be refunded only within the last date of admission, 12<sup>th</sup> August 2017.
3. Any visually challenged candidate can avail the services of a writer during the Entrance Test. The maximum qualification of a writer is 10+2. The interested candidates should contact the Chairperson, Admission Committee of the concerned department one week before the commencement of the entrance test to fulfill the formalities for the assignment of a writer.
4. Admit cards will be issued to the candidates provisionally. The candidates shall be taking test at their own risk and responsibility subject to final confirmation of their eligibility at the time of enrolment. The university shall, in no way, be responsible if they are found to be ineligible later, leading to cancellation of their result or any other consequence(s) emanating from the same.
5. The candidates shall be admitted to the entrance test only on the production of the admit card at the examination centre. No candidate shall be allowed to take the entrance test without the admit card under any circumstances. The candidates must retain the admit card with them till the enrolment process is over and must produce the same at the time of enrolment.
6. The candidates shall be required to answer the questions only on the OMR-sheets provided for that purpose, as per the rules/ norms stated in the respective OMR sheets.
7. The use of calculator is not allowed in any subject/paper, unless it is specified in the question. But it should not be a programmable calculator.
8. The university will provide the logarithmic table. Borrowing of log table or other material from any other person/ candidate is not allowed.
9. For rough work, only the sheets marked „rough work“ at the end of the question booklet/script should be used. No rough work should be done on the OMR sheet under any circumstances.
10. The candidates are not permitted to carry any telecommunication equipment such as pager, cellular phone, wireless set etc., inside the examination hall. Anybody in possession of telecommunication equipment will make her/him liable for expulsion.
11. Any person who impersonates a candidate shall be disqualified from appearing in any university examination for a period of five years including this test. If that person is a student on the rolls of a recognized college or university, he/she shall be declared as a person not fit and proper to be admitted to any examination of

this university for a period of five years. His/her case, if necessary, shall also be reported to the police for any further action in the matter. The candidate who is being impersonated shall also be disqualified for a period of five years from appearing in any examination of this university, apart from any other action which the university may take against him, as deemed fit.

12. Any candidate who creates disturbance of any kind during examination or otherwise misbehaves in or around the examination hall or refuses to obey the superintendent/deputy superintendent/assistant superintendent/any other official on examination duty or changes his/her seat with any other candidate or occupies any seat, other than the one allotted to him/her shall be expelled from the examination hall. ("expulsion" for this purpose would mean cancellation of candidature)
13. Any candidate having in his possession or accessible to him/her papers/books or notes which may possibly be of any assistance to him /her or is found giving or receiving assistance, or copying from any paper/book or note or from anywhere else or allowing any other candidate to copy from his/her answer book or found writing on any other paper question set in the question paper during examination, or using or attempting to use any other unfair means, or indulging in any kind of misconduct, shall be expelled from the examination hall. ("expulsion" for this purpose would mean cancellation of candidature)
14. The centre superintendent/observer/any other authorized university officer/official shall be competent to expel a candidate from the examination centre under instruction nos.13 & 14.
15. No candidate shall be permitted to leave the examination hall/room before the expiry of the time allowed for the examination.
16. The candidates shall be required to hand over their answer-sheets and the question papers/ booklets in full to the centre superintendent even if they have not attempted any question. No page/ part of the question paper/ answer sheet is to be removed/ torn/ taken out of the examination centre under any circumstances, failing which the candidates shall be disqualified from the entire test.
- 17. There will be negative marking in the entrance test. For each wrong answer 0.25 mark will be deducted.**
18. There shall be no re-evaluation/re-checking/re-assessment of OMR- sheets. Request for seeing the question booklet/evaluated answer sheets/answer-books by the candidates shall not be entertained. The evaluation once done by the university shall be taken as absolutely final.
19. If any answer sheet of a candidate shows or if it is otherwise established that he/she has received or attempted to receive help from any source in any manner or has given help or attempted to give help to any other candidate in any manner, the relevant answer-sheets shall be cancelled. The decision of the Admission Committee of the concerned department of Ravenshaw University, Cuttack, in this regard shall be final.

20. If a candidate writes his/her name or puts any kind of identification mark or discloses his/her identity by any method whatsoever on the cover or anywhere else in the question booklet/answer sheets, the same shall be treated as cancelled. The decision of the Admission Committee of the concerned department of Ravenshaw University, Cuttack, in this regard shall be final.
21. If it is found that a candidate has knowingly or willfully concealed or suppressed any information/fact which renders him/her ineligible to take the entrance test, his/her result of the test and as also enrolment to PG, if granted, shall stand cancelled. He/ she shall have no claim, whatsoever, against the university. The case, if necessary, shall be reported to the police for any further necessary action in the matter.
22. If a dispute or controversy of any kind arises before, during, or after conduct of the entrance test, the decision of the Admission Committee of the concerned department of Ravenshaw University, Cuttack, in all such cases, shall be final.

## **12 INTERPRETATION OF RULES**

The decision of the Department Admission Committee 2017 with regard to anything not covered in the official Brochure, or has given rise to dispute in interpretation of any rule, shall be final and binding.

**Chairperson, Council of Deans  
Ravenshaw University**

## SYLLABI FOR POSTGRADUATE ENTRANCE TEST

### M. Sc. (Biotechnology)

1. **Cell biology:** Microscopy, ultra structure of prokaryotic and eukaryotic cell; cellular organization, structure and function of cell wall, cell membrane, mitochondria, plastids, ribosomes, endoplasmic reticulum, nucleus
2. Structure and morphology of chromosomes, nature of genetic material, gene concept and genetic code
3. **Cell division:** Mitosis, meiosis and cytokinesis, cell cycle
4. **Biochemistry:** Properties of water, hydrogen ion concentration and buffers, chemical bonds and concept of free energy, structure and chemistry of carbohydrates, proteins, aminoacids, fats, organic acids, nucleic acids. Protein, Nucleic acid and fat metabolism
5. **Enzymes:** Nomenclature, classification and properties, Enzyme kinetics, Mechanism of enzyme action.
6. **Microbiology:** Biogenesis, germ theory of diseases, pure culture concept, morphology fine structure, growth, reproduction and economic importance of bacteria and viruses.
7. **Immunology:** Phylogeny of Immune system, Innate and acquired Immunity, Clonal nature of Immune response, Cells of the Immune system, Antigens, Antibodies, immunodeficiency diseases. Transplantation
8. **Genetics:** Mendelism, Interaction of factors, chromosome theory of heredity, linkage and crossing over, gene mutation, chromosomal aberration and polyploidy
9. **Molecular Biology:** Physico-chemical properties of nucleic acids, Prokaryotic and eukaryotic Genome organization, DNA Replication and repair, Prokaryotic transcription, eukaryotic transcription and regulation, Prokaryotic and eukaryotic translation, gene regulation
10. **Genetic engineering:** Molecular tools: Enzymes, hosts and vectors, Nucleic acid sequencing and amplification, molecular markers, DNA transfection, gene therapy, gene silencing
11. **Plant physiology:** Absorption and translocation of water, phloem transport, mineral uptake, Photosynthesis, Respiration, plant hormones.
12. **Animal physiology:** Animal nutrition, digestive system, circulatory system, blood grouping and clotting, excretory system, homeostasis
13. **Biostatistics:** Statistics; Meaning, Definition, functions and limitations, frequency distribution, Chi-square test, Simple correlation and Regression
14. **Environmental Biology:** Basic concepts and issues, Air pollution, Water pollution, soil pollution, Green house technology, Bioremediation of contaminated soil and waste lands, Solid waste management

## **M.Sc. (Computer Science)**

### **1. Computer Science - (Honours Course)**

Computer Fundamentals, Operating System, DBMS, C & C++ Programming, Data Structure, Networking.

### **2. Mathematics - ( Pass Course of Ravenshaw University )**

Real Analysis, Modern Algebra, Linear Algebra, Numerical Analysis

## **Electronics and Telecommunication**

1. The questions of M.Sc (ETC) entrance exam would be comprised of two parts i.e., **Part-I** and **Part-II**. Part-I contain 50 questions from the following areas:
  - a) General English
  - b) General Knowledge
  - c) Mathematical Reasoning
2. Part-II contains another 50 questions from the following area: Basic(Analog & Digital) Electronics & IT

## **INTERNATIONAL STUDIES**

- **Concepts, Theories and Issues of International Relations:**

Nature of International Politics. Theories and Approaches to the study of International Politics (Theories of International Politics: Realism, Neo-Realism, Liberalism, Neo-Liberalism, Game Theory, Systems and Decision making) Elements of National Power; Role of Power in International Politics, Balance of Power, Bipolarity, Unipolarity and Multipolarity. The Concept of Nation-State, National Interest and National Security ,Collective Security, the role of the United Nations. Cold War, Détente, New Cold War; Post Cold War and the emerging World Order. Politics of Liberalization, Globalization and World Trade Organization. Nuclear Weapons, Deterrence and World peace. Nationalism , Nation-State and challenges to Nation –States. Contemporary World Order: End of cold war, United States as an Eminent power & Multipolarity (European Union, China and Japan) Globalization and Its implications. Environmental and Ecological Problems. Human Rights.

International Economic Issues: Trade Regime (WTO) and Economic Groupings, Role of International Financial Institutions, Role of Multi-National Corporations, Trans-national threats to International Security: International Terrorism, Drug Trafficking, Proliferation of small arms. Weapons of Mass Destruction: Nuclear, Biological, Chemical and other weapons and Arms Control and Disarmament.

- **India's Foreign Policy**

Objectives and Principles, Basic Determinants. India and its Neighbours, India and Major Powers, India and Non-Alignment, Major issues of Indian Foreign Policy.

- **International Organisations**

League of Nations, United Nations , Regional Organisations: EU, ASEAN, SAARC, OAU. Collective Security, Peace Keeping, Peace Making & Peace Building, International Law. UN Agencies and other International Organizations Restructuring of the United Nations

- **General Knowledge of World Affairs, World History, Geography, Economics and Current Events.**

## ITM

### **English**

Homophones, Plural Forms, Grammar, Articles, Synonyms, Antonyms, Nouns, and Gender

### **Management**

Principles of Management, Functions of Management, Organisational Structure, Organisational Behaviour, Scientific Management, Herzberg's Theory and Maslow's Need Hierarchy Theory on Motivation, Types of Market Structure, Communication, Marketing Mix, Selling and Distribution Channels, General Awareness Relating to Business.

### **Operating Systems**

Fundamental of Computers, Hardware and software, Process, Process scheduling, Process Synchronization, Deadlock, Virtual memory, Logical and physical address, paging, segmentation, Page replacement algorithm.

### **Software Engineering**

Software development life cycle model, Agile software development, Requirement analysis, Software design, Modularity: Cohesion and Coupling, Functional and Object-oriented design, Software testing and debugging.

### **Data Structure**

Recursion, Stack, Queue, Linked Lists, operations on stacks and queues, Graph notations and formulae, Trees, Tree traversals, Hashing techniques, searching and sorting techniques, time complexity of various searching and sorting techniques.

### **Database Management Systems**

DBMS fundamentals, Data models, Keys and Constraints, Entity Relationship model, Relational algebra, Relational calculus, SQL (Structured Query Language), Aggregate functions, Join, Functional dependency, Normalization, 1NF, 2NF, 3NF, BCNF, 4NF, 5NF, Transaction processing and concurrency control.

### **Discrete Mathematics**

Permutation and Combination, Fundamentals of Probability, Solving Recurrence relations, Set, Relation & Function, Graphs : Basic concepts, Isomorphism and sub graphs, Trees and their properties, Spanning Trees, Binary Trees, Planar Graphs, Euler's Formula, Multi graphs and Euler graphs, Hamiltonian graphs

### **Computer Networks**

Introduction to OSI Seven Layer Architecture, Datalink layer Protocols, TCP/IP, UDP, IPv4/v6, Subnetting, Application Layer Protocols, Client server architecture.

### **Computer Organization and Architecture**

Boolean algebra. Combinational and sequential circuits. Minimization. Number representations and computer arithmetic (fixed and floating point).

Machine instructions and addressing modes. ALU, datapath and control unit. Memory hierarchy: cache, main memory and secondary storage; I/O interface (interrupt and DMA mode).

### **Object oriented Programming Concepts**

What is Object oriented programming, classes, relationship between classes, objects, encapsulation, data hiding, polymorphism, inheritance, dynamic binding, message passing, aggregation, association, data abstraction .

## **J.M.C.**

1. **Communicative English:** Report Writing, letter writing, Writing of C.V., Letter to the Editor, Drafting of Condolence messages, Telegrams etc.
2. **Analytical Reasoning**
3. **General Knowledge: (Odisha & India)** Science & Technology, Sports, Current Affairs, Literature, Historical dates.



## **Master of Business Administration (MBA)**

1. General English/ Verbal Ability
2. General Knowledge
3. Quantitative Ability
4. Data Interpretation
5. Logical Reasoning

## **Rural Development**

1. English Aptitude
2. General Knowledge
3. Mental Ability and Reasoning
4. Numerical Ability/Quantitative Aptitude

**ADMISSION INFORMATION BROCHURE  
M.PHIL. PROGRAMME, 2017-18**



**Ravenshaw University  
Cuttack**



## Important Dates

<b>The last date of online application</b>	<b>15.05.2017</b>
<b>Written Entrance Test</b>	<b>26.05.2017</b>

<b>Application Fee</b>	<b>Rs. 500/-</b>
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<b>Fees to be paid at the time of Admission (Rs.)</b>			
	<b>Admission Fee</b>	<b>Examination Fee</b>	<b>Total</b>
Science & Arts (Practical Subjects) – Boys	8680/-	540/-	9220/-
Science & Arts (Practical Subjects) – Girls and SC/ST students	8280/-	540/-	8820/-
Arts (without Practical) and Commerce – Boys	6680/-	490/-	7170/-
Arts (without Practical) & Commerce – Girls & SC/ST students	6280/-	490/-	6770/-

## Syllabus for Entrance Examination

The syllabus for M.Phil. Entrance Examination will be the same as prescribed for Post Graduate syllabus of Ravenshaw University in the respective subject.

**Examination Center: Ravenshaw University, Cuttack, Odisha**

<b>M.Phil. Entrance Examination Programme Schedule</b>		
<b>Subject/ Course</b>	<b>Date</b>	<b>Time</b>
Applied Geography, Botany, Chemistry, Commerce, Economics, Education, English, Geology, Hindi, History, Management, Mathematics, Odia, Physics, Philosophy, Political Science, Psychology, Sanskrit, Statistics, Sociology, Zoology	26.05.2017	2:00 PM – 4:00 PM

**In case of any change in the schedule, it will be published in the University website.**

## **Guidelines for Written Test**

The written test will be of two hours duration carrying 100 marks.

The candidates are requested to report at least one hour before the commencement of examination.

The candidates are required to bring the following documents with them positively to the Examination Hall:

- (i) **Admit Card**
- (ii) **Identity Proof**: Voter I Card, Aadhaar, Driving License or any other recognised Identity Proof.

# ACADEMIC PROGRAMME

## 1 INTRODUCTION

The duration of M.Phil. programme is two semesters. The first semester is devoted to course work, as per the UGC guidelines. The second semester is used for writing a dissertation. The M.Phil./ Ph.D. regulation can be found in the University website.

## 2 M.Phil. COURSE

The M.Phil. Programme is a preparatory programme for prospective researchers at the pre-doctoral level. The programme is designed to give students a firm grounding in research and to build conceptual foundations in specific areas of advanced studies in a subject. It is intended for students with professional goals as educational practitioners in various settings, which may include careers as college and university faculty, researchers, managers and development professionals in government, non-government and autonomous research organizations and development agencies; policy analysts, planners, educational consultants; academic and professional leaders in the school system etc.

The University offers M. Phil Programme in the following disciplines.

	<b>Subject</b>	<b>General</b>	<b>ST</b>	<b>SC</b>	<b>Total</b>
1.	Applied Geography	5	2	1	8
2.	Botany	5	2	1	8
3.	Chemistry	6	2	1	9
4.	Commerce	5	2	1	8
5.	Economics	4	2	1	7
6.	Education	5	2	1	8
7.	English	5	2	1	8
8.	Geology	2	1	-	3
9.	Hindi	2	1	-	3
10.	History	5	2	1	8
11.	Management	2	1	1	4
12.	Mathematics	2	-	-	2
13.	Odia	3	1	1	5
14.	Philosophy	3	1	1	5
15.	Physics	6	2	1	9
16.	Political Science	3	1	1	5
17.	Psychology	4	2	1	7
18.	Sanskrit	2	-	-	2
19.	Sociology	2	1	-	3
20.	Statistics	2	-	-	2
21.	Zoology	5	2	1	8
	<b>TOTAL =</b>	<b>78</b>	<b>29</b>	<b>15</b>	<b>122</b>

### 3 REQUIREMENTS FOR ATTENDANCE IN CLASSES

M.Phil. is a full-time programme for two semesters. Minimum of seventy five per cent (75%) attendance in the 1<sup>st</sup> semester is essential for appearing at the Semester Examination. In exceptional cases of medical ground, for students allowed by the department to conduct dissertations at other institutions and absence for representing the University at various events, a relaxation of 15% in attendance may be considered. In no case any compromise in attendance shall be entertained.

### 4 ACADEMIC CALENDAR FOR M.PHIL. PROGRAMME

Admission, Registration & Commencement of classes - 1 <sup>st</sup> Semester	July 17, 2017
1 <sup>st</sup> Semester Examination	December 2017
Submission of Dissertation	June 2018

### 5 INSTRUCTIONS FOR FILLING OF APPLICATION FORM

**The candidate is solely responsible for any wrong information provided in the application form which is liable to be cancelled.**

Candidates seeking admission into different M.Phil programmes of the University should follow the following steps for successful submission of application. The online application must be submitted on or before **May 15, 2017**.

**All applicants should have a valid email ID before applying for admission into M.Phil programmes. All communications from the University to the candidates will be through website.**

#### STEP 1 Registration and Deposit of Application Fee

Online registration form is available in the Ravenshaw University Website **[www.ravenshawuniversity.ac.in](http://www.ravenshawuniversity.ac.in)**

Applicants are required to fill all the entries in the online regd. form before pressing the submit button.

#### STEP 2 Filling of online Application Form

Online application form is available in the Ravenshaw University Website '[www.ravenshawuniversity.ac.in](http://www.ravenshawuniversity.ac.in)' at the link "**ADMISSION-2017**".

Applicants are required to fill all the entries in the online application form before pressing the submit button.

#### STEP 3 Submission of documents (Hard Copy) during Interview

- One copy of the submitted application form along with 3 copies of research proposal (1000 words). At the time of interview it will be evaluated in terms of the reasoning and insight, it will be a tool for us to assess your research interest.
- **Applications for more than one subject:** A candidate who desires to apply for more than one M.Phil Programme is required to fill separate online application

form with requisite application fee for each subject as explained in the **INSTRUCTIONS FOR FILLING OF APPLICATION FORM**. The candidate needs to appear for entrance test separately for each subject to fulfilling the exam schedule.

## **6 DOCUMENTS REQUIRED DURING M. PHIL ENTRANCE EXAMINATION**

- ii) **ADMIT CARD:** Candidates are required to bring the admit card to the entrance examination centre.
- iii) **Identity Proof:** Candidates are requested to bring at least one identity proof like Voter I Card/ Aadhaar/ Driving License/ any other recognized identity proof.

The candidates are requested to report at the examination centre (Ravenshaw University Campus) **at least one hour before** the commencement of examination.

## **7 ELIGIBILITY FOR ADMISSION INTO DIFFERENT M.PHIL PROGRAMMES**

1. Candidates for admission to the M.Phil. programme should have a Master's degree or a professional degree declared equivalent to the Master's degree by the corresponding statutory regulatory body, with at least 55% marks in aggregate or its equivalent grade 'B' in the UGC 7-point scale (or an equivalent grade in a point scale wherever grading system is followed) or an equivalent degree from a foreign educational Institution accredited by an Assessment and Accreditation Agency which is approved, recognized or authorized by an authority, established or incorporated under a law in its home country or any other statutory authority in that country for the purpose of assessing, accrediting or assuring quality and standards of educational institutions.
2. A relaxation of 5% of marks, from 55% to 50%, or an equivalent relaxation of grade, may be allowed for those belonging to SC/ST/Differently-Abled and other categories of candidates as per the decision of the University from time to time, or for those who had obtained their Master's degree prior to 19th September, 1991. The eligibility marks of 55% (or an equivalent grade in a point scale wherever grading system is followed) and the relaxation of 5% to the categories mentioned above are permissible based only on the qualifying marks without including the grace mark procedures.

## **8 SELECTION NORMS**

The merit list for M.Phil Courses will be prepared on the basis of the following criteria.

1. The University shall admit M.Phil. students through a two stage process called Research Eligibility Test (RET), consisting of a written test and an admission interview. The qualifying marks of the written test and admission interview shall be 50%, separately. The syllabus of the Entrance Test shall consist of 50% from research methodology and 50% from the subject concerned (based on the PG level course of Ravenshaw University).
2. The admission interview/*viva-voce* for M.Phil. will be conducted through a presentation before a duly constituted DRC.



3. The interview/*viva voce* shall also consider the following aspects, viz. whether the candidate possesses the competence for the proposed research; the research work can be suitably undertaken at the department; the proposed area of research can contribute to new/additional knowledge.
4. Questions for M.Phil entrance examination will be **Objective/ Subjective/ both objective and subjective**.
5. Time duration of entrance examination will be 2 hours. Full Marks is 100 and there is no negative marking.

## **9 DATE OF SUBMISSION**

Last date of submission of **online** application for admission into all M.Phil courses is **15<sup>th</sup> May 2017**.

## **10 PUBLICATION OF MERIT LIST**

The Merit List shall be published in the website ([www.ravenshawuniversity.ac.in](http://www.ravenshawuniversity.ac.in)) and the notice boards of the respective departments. Candidates are required to check the **merit list of the candidates** selected for interview.

**NO SEPARATE INTIMATION SHALL BE ISSUED FOR ATTENDING COUNSELLING/ INTERVIEW FOR ADMISSION.**

## **11 RESIDENTIAL FACILITY**

Limited numbers of hostel seats may be available for outstation candidates for a maximum period of one year.

## **12 DOCUMENTS TO BE PRODUCED AT THE TIME OF ADMISSION**

- i) A copy of admission form and all original Certificates and documents in support of qualifications (such as pass certificates and mark sheets), reservation and College Leaving Certificate;
- ii) Blood Group Certificate;
- iii) Four recent stamp size colour photographs;
- iv) Proof of payment of admission fees and other fees as intimated by the university office Admission fees as intimated by the university office;
- v) Anti ragging affidavits.

If a selected candidate fails to submit the documents and admission fees on the specified dates, the claim for admission shall be forfeited.

**A candidate has to furnish an undertaking that he/ she is not working in any college/ institution on full time/ part time basis and shall pursue the course full time till the publication of M.Phil final result.**

**Anti ragging affidavit to be downloaded from the website and submitted by the selected candidates only at the time of admission.**

### **13 M.Phil. REGULATION OF THE UNIVERSITY**

The M.Phil. Regulation of the University is given in the University website.

### **14 INTERPRETATION OF RULES**

The decision of the Admission Committee of the respective Department with regard to anything not covered in the official brochure or has given rise to dispute in interpretation of any rule shall be final and binding.

**Chairperson, Council of Deans  
Ravenshaw University**

# **ADMISSION INFORMATION BROCHURE**

## **Ph.D. PROGRAMME, 2017-18**



# **Ravenshaw University**

## **Cuttack**



## Research Eligibility Test – 2017

The Research Eligibility Test (RET), consisting of a written examination and an interview, is conducted by the University for Enrolment of students in to Ph.D. programme.

### EXAMINATION CENTER

**Ravenshaw University, Cuttack**

### IMPORTANT DATES

<b>The Last Date of Online Application</b>	<b>15<sup>th</sup> May 2017</b>
<b>Date of Written Examinations</b>	<b>25<sup>th</sup> -27<sup>th</sup> May 2017</b> (see the programme schedule)

In case of any change in the schedule, it will be published in the University website.

**Application Fee: Rs.1500/- only**

## Research Eligibility Test (RET) Program Schedule (Written Examinations)

Subjects/ Courses	Date	Time
<i>Applied Geography, Botany, Chemistry, Commerce, Economics, Education, English, Geology, Hindi, History, Odia, Philosophy, Physics, Sanskrit, Psychology, Statistics, Zoology</i>	25.05.2017	02.00 P.M - 04:00 PM
<i>Business Administration</i>	26.05.2017	09AM – 11AM
<i>Biotechnology, Management, Rural Development, Computer Science</i>	27.05.2017	02 PM – 04 PM

- The candidates are requested to report **at least one hour before** the commencement of examination.
- The written examinations will be of **two hours** duration carrying **100 marks**. **Subjective/ objective/ both subjective and objective types of questions** will be asked.
- The candidates are required to **bring the Admit Card** with them **positively to the Examination Hall**.

Candidates are requested to carry with them at least one Identity Proof (Voter I Card/ Aadhaar/ Driving License/ any other recognised Identity proof).

## 1 SUBJECTS FOR Ph.D. PROGRAMME

The University offers Ph.D. Programme in the following disciplines. Department/subject wise maximum number of intake capacity for the session 2017-18 is given in the table below. Filling up of all the seats as mentioned in Table is subject to availability of suitable candidates as decided by the respective Departmental Research Committee (DRC).

Sl.	Subject	Total Seats	General (tot. – resv.)	ST (22.5%)	SC (16.25%)
1.	Applied Geography	5	3	1	1
2.	Botany	6	4	1	1
3.	Bio-technology	6	4	1	1
4.	Business Administration	8	5	2	1
5.	Chemistry	6	4	1	1
6.	Commerce	4	2	1	1
7.	Commerce (Management)	3	2	1	-
8.	Economics	2	2		-
9.	Education	4	2	1	1
10.	English	3	2	1	
11.	Geology	1	-	-	-
12.	Hindi	4	2	1	1
13.	History	8	5	2	1
14.	Odia	2	2	-	-
15.	Philosophy	1	1		
16.	Physics	6	4	1	1
17.	Computer Sc.	1	1		
18.	Rural Development	1	1	-	-
19.	Sanskrit	4	2	1	1
20.	Psychology	4	2	1	1
21.	Statistics	2	2	-	-
22.	Zoology	4	2	1	1

## 2 FEE STRUCTURE

### For Regular Courses

Admission Fee :	Rs. 10,000/-
End of 1 <sup>st</sup> Semester / Coursework	Rs 5,000/-
Second Year	Rs 10,000/-
Third Year	Rs 10,000/-
<b>TOTAL</b>	<b>Rs 35,000/-</b>

In case of Business Administration, apart from Admission Fees, a Ph.D. scholar has to deposit Rs.30,000/- per semester for first four semesters and Rs.10,000/- for each subsequent semester up to submission of thesis.

3

### ELIGIBILITY FOR ADMISSION INTO DIFFERENT Ph.D. PROGRAMMES

1. Candidates for admission to the Ph.D. programme shall have a Master's degree or a professional degree declared equivalent to the Master's degree by the corresponding statutory regulatory body, with at least 55% marks in aggregate or its equivalent grade 'B' in the UGC 7-point scale (or an equivalent grade in a point scale wherever grading system is followed) or an equivalent degree from a foreign educational Institution accredited by an Assessment and Accreditation Agency which is approved, recognized or authorized by an authority, established or incorporated under a law in its home country or any other statutory authority in that country for the purpose of assessing, accrediting or assuring quality and standards of educational institutions.
2. A relaxation of 5% of marks, from 55% to 50%, or an equivalent relaxation of grade, may be allowed for those belonging to SC/ST/Differently-Abled and other categories of candidates as per the decision of the University from time to time, or for those who had obtained their Master's degree prior to 19th September, 1991. The eligibility marks of 55% (or an equivalent grade in a point scale wherever grading system is followed) and the relaxation of 5% to the categories mentioned above are permissible based only on the qualifying marks without including the grace mark procedures.
3. A person whose M.Phil. dissertation has been evaluated and the viva voce is pending may be admitted to the Ph.D. programme of the same Institution;
4. Candidates possessing a Degree considered equivalent to M.Phil. Degree of an Indian Institution, from a Foreign Educational Institution accredited by an Assessment and Accreditation Agency which is approved, recognized or authorized by an authority, established or incorporated under a law in its home country or any other statutory authority in that country for the purpose of assessing, accrediting or assuring quality and standards of educational institutions, shall be eligible for admission to Ph.D. programme.
5. In addition to the above, in order to be called for the interview, an applicant must also fulfil any one of the following conditions:
  - (i) Successful clearance of the written part of Research Eligibility Test (RET). **A candidate should secure a minimum of 50% marks in written examination to qualify for the interview.**
  - (ii) Qualification of any of the following examinations: NET/JRF (conducted by UGC/CSIR/DBT/other national tests with eligibility for research), SLET, GATE or INSPIRE Fellowship, Rajiv Gandhi Fellowship, Maulana Azad Fellowship, UGC National Fellowship for OBC candidates etc.
  - (iii) Possession of an M.Phil. degree from any university recognized by the UGC, complete with course work having minimum 300 marks or 24 credits, including a review work or a dissertation.

6. For Business Administration a student having M.Sc./M.A./M.Com./LLM/ or an equivalent degree with minimum 55% marks or an equivalent grade OR M.Tech./M.E./MCA/MBA/ or an equivalent degree with minimum 55% marks or an equivalent grade is eligible.
7. For Computer Science a student having M.Sc. or an equivalent degree with minimum 55% marks or an equivalent grade OR M.Tech./M.E./MCA/MBA/ or an equivalent degree with minimum 55% marks or an equivalent grade is eligible.
8. **The first three years of Ph.D. programme is full time. A candidate, once selected for admission to Ph D Programme, has to produce No Objection Certificate and Relieve Order from the employer, if he/she is employed in any institution.**

#### **4 Ph.D. COURSE WORK AND COURSE OUTLINE**

All the research scholars admitted into the Ph.D. programme have to undergo a course work of one semester duration. The outline of the course work is given below.

**Paper-I: Research Methodology and Computer Application**

**Paper-II: Elective Course**

**Paper-III: Review**

However, a candidate holding an M.Phil. degree will be exempted from doing course work, provided the M.Phil. degree has been awarded on the basis of course work, containing similar papers that are offered in the Ph.D. course work, reflected in the M.Phil. mark sheet.

If a candidate has already completed course work earlier, he/she will be expected to submit the Research proposal to the DRC and carry on research work.

#### **5 INSTRUCTIONS FOR FILLING OF APPLICATION FORM**

**The candidate is solely responsible for any wrong information provided in the application form which is liable to be cancelled.**

Candidates seeking admission into Ph.D. programme of different courses through Research Eligibility Test (RET) of the University should follow the following steps for successful submission of application. The online application must be submitted on or before **15<sup>th</sup> May, 2017**.

**All applicants should have a valid email ID before applying for admission into Ph.D. programme. All applicants should keep ready a scanned copy of a passport size photograph and scanned copy of signature (all in .jpg / .JPEG file format) before filling up the online application form. All communications from the University to the candidates will be through website.**

#### **STEP 1 : Registration and Deposit of Application Fee**

Online registration form is available in the Ravenshaw University Website [www.ravenshawuniversity.ac.in](http://www.ravenshawuniversity.ac.in)

Applicants are required to fill all the entries in the online registration form before pressing the submit button.



- Application fee for Ph.D. Courses: Rs.1500/-

**Important:** Bring one copy of the application form and required documents and submit to concerned department during Interview.

## 6 LIST OF DOCUMENTS TO BE SUBMITTED DURING INTERVIEW

- Print out of the application form (printed application form after online submission) with a recent passport size photograph affix on it.
- Photocopies of Marksheet and Certificate of the HSC/10<sup>th</sup>, +2/12<sup>th</sup> and Degree/ Master's Degree or equivalent examination.
- Photocopies of Marksheet and Provisional Certificate of the last qualifying P.G. or equivalent examination.
- Where all two years' marks are not reflected in a single mark sheet, candidates are required to submit all mark sheets (individual semester/ annual).*
- Photocopies of documentary evidences for being exempted from written examination.
- Research proposal of 2000 words.

While we encourage you to be innovative in approach and presentation, we expect your write-up to have a critical understanding of the body of knowledge in the subject area and to be specific in terms of study issues and objectives and to show some understanding of the analytical framework and data. It should not be an essay; nor should it be a copy of study presented as part of any other programme.

All documents will be signed by the candidate as proof of self attestation. Submission of incorrect information may lead to cancellation of admission, and make the candidate liable for criminal proceedings.

**Candidates are advised to take a printout of the admit card after the registration of application form and successful payment of the application fees.**

**Applications for more than one subject:** Candidates desirous of applying for more than one Ph.D. course is required to fill separate online application form with requisite application fee for each subject. The candidate needs to appear for Research Eligibility Test (RET) separately for each subject condition to fulfilling the exam schedule.

## 7 CANDIDATES TO BRING FOLLOWING DOCUMENTS TO EXAMINATION CENTRE

- ADMIT CARD:** Candidates are required to bring the admit card to the examination centre.
- IDENTITY PROOF:** Voter I Card/ Aadhaar/ Driving License/ Any other recognised Identity proof.

### **N.B.:**

- No other intimation shall be issued for appearing the Research Eligibility Test (RET) examination.
- The candidates are requested to report at the Examination Center (Ravenshaw University) at least one hour before the commencement of examination.

## 8 DATE OF SUBMISSION OF APPLICATION

Last date of submission of **online** application for admission into all Ph.D. courses is **15<sup>th</sup> May 2017**.

## 9 SELECTION NORMS

The merit list for Ph.D Courses will be prepared on the basis of the following criteria.

6. The University shall admit Ph.D. students through a two stage process called Research Eligibility Test (RET), consisting of a written test and an admission interview. The qualifying marks of the written test and admission interview shall be 50%, separately. The syllabus of the Entrance Test shall consist of 50% from research methodology and 50% from the subject concerned (based on the PG level course of Ravenshaw University).
7. The admission interview/*viva-voce* for Ph.D. will be conducted through a presentation before a duly constituted DRC. Besides, those who qualify in RET, candidates who are exempted from RET as mentioned in Section 4 above, shall attend the *viva-voce* directly.
8. The interview/*viva voce* shall also consider the following aspects, viz. whether the candidate possesses the competence for the proposed research; the research work can be suitably undertaken at the department; the proposed area of research can contribute to new/additional knowledge.
9. Questions for Ph.D. entrance examination will be **Objective/ Subjective/ both Objective and Subjective**.
10. Time duration of entrance examination will be 2 hours. Full Marks is 100 and there is no negative marking.

## 10 PATTERN OF QUESTIONS IN RESEARCH ELIGIBILITY TEST (RET) FOR Ph.D. COURSES

### Written component of RET

Questions for written examination will be **objective/ subjective/ both objective and subjective** types based on the PG level course of Ravenshaw University. The syllabus of the Entrance Test shall consist of 50% of research methodology and 50% shall be subject specific.

- Time duration of written component will be 2 hours.
- Full Marks is 100.
- To qualify for interview, the candidate must obtain at least **50 %** marks in written component.
- The syllabus for Research Eligibility Test (RET) will be the same as prescribed for Post Graduate (Master's Degree) syllabus of Ravenshaw University in the respective subject. The candidates are advised to check the same available in the Ravenshaw University website ([www.ravenshawuniversity.ac.in](http://www.ravenshawuniversity.ac.in)). However, the syllabus for Business Administration and Commerce (Management) are given in **Annexure-I**.

### Interview component of RET

- In the interview with DRC, besides subject, the candidate is also expected to discuss their research interest/area through a presentation before the Department Research Committee.

## 11 PUBLICATION OF MERIT LIST

The Merit List for the written examinations shall be published in the website ([www.ravenshawuniversity.ac.in](http://www.ravenshawuniversity.ac.in)) **NO SEPARATE INTIMATION SHALL BE ISSUED FOR ATTENDING INTERVIEW AS WELL AS COUNSELLING FOR ADMISSION.**

## 12 DOCUMENTS TO BE PRODUCED AT THE TIME OF ADMISSION

- i) All original certificates and documents in support of qualifications (such as certificates and mark sheets), conduct and College Leaving Certificate;
- ii) Blood Group Certificate & Anti ragging affidavit.
- iii) Four recent stamp size colour photographs;
- iv) Proof of payment of admission fees and other fees as intimated by the university office;

**A candidate has to give an undertaking that he/ she is not working in any State/ Central/ Private College/ University/ Institution either on short time/ full time basis. If he/she is so engaged, the candidate has to submit a Relieve order & NOC from the employer for the first 3 years of the Ph.D. Programme.**

If a selected candidate fails to submit the documents and admission fees etc. on the specified date, the claim for admission shall be forfeited. No extension of time will be allowed in any case.

## 13 RESIDENTIAL FACILITY

Limited numbers of hostel seats may be available for outstation candidates for a maximum period of three years.

## 14 GENERAL RULES for Ph.D/ M.Phil.

1. Qualifying the Research Eligibility Test (RET) shall not, ipso facto, entitle a candidate to get enrolment in the department concerned where he/she intends to seek enrolment. It will be the responsibility of the candidate to ensure his/her eligibility and fulfillment of such other conditions as may be prescribed for enrolment in the rules and regulations of the university.
2. Once paid, the application fees shall in no case be refunded.
3. The Research Eligibility Test (RET) will be held in Ravenshaw University, Cuttack.
4. Any visually challenged candidate can avail of the services of a writer in the written examination of Research Eligibility Test (RET). The maximum qualification of a writer is 10+2+3. He/she should not have attained the above mentioned qualification more than one year prior to the Research Eligibility Test (RET). The interested visually challenged candidates should contact the Chairperson, Department Admission Committee-2017 one week before the commencement of the examination to fulfill the formalities for the assignment of a writer.
5. E-admit cards will be issued to the candidates provisionally. The candidates shall be taking examinations at their own risk and responsibility subject to

final confirmation of their eligibility at the time of enrolment. The university shall, in no way, be responsible if they are found to be ineligible later, leading to cancellation of their result or any other consequence(s) emanating from the same.

6. The candidates shall be admitted to the examinations only on the production of the e-admit card at the examination venue. No candidate shall be allowed to take the examinations without the e-admit card under any circumstances. The candidates must retain the e-admit cards with them till the enrolment process is over and must produce the same at the time of enrolment.
7. The candidates shall be required to answer the questions only on the answer- sheets provided for that purpose, as per the rules/ norms stated in the respective answer sheets.
8. The use of programmable calculator is not allowed in the examination.
9. The university will provide the logarithmic table. Borrowing of log table or other material from any other person/ candidate is not allowed.
10. For rough work, only the sheets marked „rough work“ at the end of the question booklet/script should be used. No rough work should be done on the answer sheet under any circumstances.
11. The candidates are not permitted to carry any telecommunication equipment such as pager, cellular phone, wireless set, etc., inside the examination hall. Anybody in possession of such equipment(s) will make her/him liable for expulsion.
12. Any person who impersonates a candidate shall be disqualified from appearing in any university examination for a period of five years including this test. If that person is a student on the rolls of a recognized college or university, he/she shall be declared as a person not fit and proper to be admitted to any examination of this university for a period of five years. His/her case, if necessary, shall also be reported to the police for any further action in the matter. The candidate who is being impersonated shall also be disqualified for a period of five years from appearing in any examination of this university, apart from any other action which the university may take against him, as deemed fit.
13. Any candidate who creates disturbance of any kind during examination or otherwise misbehaves in or around the examination hall or refuses to obey the superintendent/deputy superintendent/assistant superintendent/any other official on examination duty or changes his/her seat with any other candidate or occupies any seat, other than the one allotted to him/her shall be expelled from the examination hall. (“expulsion” for this purpose would mean cancellation of candidature)
14. Any candidate having in his possession or accessible to him/her papers/books or notes which may possibly be of any assistance to him /her or is found giving or receiving assistance, or copying from any paper/book or note or from anywhere else or allowing any other candidate to copy from his/her answer book or found writing on any other paper question set in the question paper during examination, or using or attempting to use any other unfair means, or indulging in any kind of misconduct, shall be expelled from the examination hall. (“expulsion” for this purpose would mean cancellation of candidature)

15. The centre superintendent/observer/any other authorized university officer/official shall be competent to expel a candidate from the examination centre under instruction nos.13 & 14.
16. No candidate shall be permitted to leave the examination hall/room before the expiry of the time allowed for the examination.
17. The candidates shall be required to hand over their answer-sheets and the question papers / booklets in full to the centre superintendent even if they have not attempted any question. No page/part of the question paper/answer sheet is to be removed / torn/taken out of the examination centre under any circumstances, failing which the candidates shall be disqualified from the entire test.
18. There shall be no re-evaluation/re-checking/re-assessment of answer-sheets. Request for seeing the question booklet/evaluated answer sheets/answer-books by the candidates shall not be entertained. The evaluation once done by the university shall be taken as absolutely final.
19. If any answer sheet of a candidate shows or if it is otherwise established that he/she has received or attempted to receive help from any source in any manner or has given help or attempted to give help to any other candidate in any manner, the relevant answer-sheets shall be cancelled. The decision of the Department Admission Committee 2017, Ravenshaw University, Cuttack, in this regard shall be final.
20. If a candidate writes his/her name or puts any kind of identification mark or discloses his/her identity by any method whatsoever on the cover or anywhere else in the question booklet/answer sheets, the same shall be treated as cancelled. The decision of the, Department Admission Committee 2017 Ravenshaw University, Cuttack, in this regard shall be final.
21. If it is found that a candidate has knowingly or wilfully concealed or suppressed any information/fact which renders him/her ineligible to take the RET, his/her result of the test and as also enrolment to Ph.D., if granted, shall stand cancelled. He/ she shall have no claim, whatsoever, against the university. The case, if necessary, shall be reported to the police for any further necessary action in the matter.
22. If a dispute or controversy of any kind arises before, during, or after conduct of the Research Eligibility Test, the decision of the Department Admission Committee 2017, Ravenshaw University, Cuttack, in all such cases, shall be final.

## **15 INTERPRETATION OF RULES**

The decision of the Department Admission Committee with regard to anything not covered in the official brochure or has given rise to dispute in interpretation of any rule shall be final and binding.

## **16 Ph.D. REGULATION OF THE UNIVERSITY**

The Ph.D. Regulation of the University is given in the University website.

**Chairperson, Council of Deans  
Ravenshaw University**

**SYLLABI FOR RESEARCH ELIGIBILITY TESTS**

**BUSINESS ADMINISTRATION**

Marketing, Finance, Human Resource, Production and Operation Research, Managerial Economics, Research Methodology, OB, Basic Statistical Techniques.

**COMMERCE (MANAGEMENT)**

Accounting for Managerial Decision, Advanced Marketing Management, Managing Human Resources, Security Analysis and Portfolio Management, Financial Risk Management and Derivatives, Corporate Reporting and Analysis, Services Marketing, Customer Relation Management.

