

## JADAVPUR UNIVERSITY

### GUIDELINES FOR RUSA 2.0 (for internal use only)

- as approved by the Executive Council of JU, vide Agenda Item No. 84 of 26/12/2018

#### **General Principles**

1. Jadavpur University has been granted Rs 100 crores under RUSA 2.0 for **“Component 4: Quality and Excellence in select State Universities”**. Duration: **TWO YEARS**, 2018-2020.
2. RUSA 2.0 Component 4 specifies 30% (i.e. 30 crores) to be spent under "Construction & Equipment" and 70% (i.e. 70 crores) under "Quality Enhancement and Improvement in Teaching and Research"
3. The **five research thrust areas** to be consolidated under RUSA 2.0 are:
  - Advanced Materials research
  - Translational research
  - Smart and Intelligent Cyber-Physical Systems research
  - Research in Sustainable Development
  - Studies in the Global South

Therefore, all activities, travel, networking and collaboration, research support to faculty, support to students, organizing seminars/conferences, support to departments, and so on **must** show that the purpose for which the funds are being utilised falls into one or more of these research thrust areas. (A note on these thrust areas has been given as an appendix to these guidelines.)

4. All activities with a **research component**, including research support to faculty members and to departments/schools for upgrading research (see items 4 and 9 below) must be vetted and approved by Research Board/s, depending on the research thrust area/s of the proposed activity.
5. Each research activity must indicate deliverables at the time of submission of proposals.
6. Funding for the second year of RUSA 2.0 (i.e. 2019 – 2020) will depend on the assessment of outcomes of research activities.
7. There will be five Research Boards, one in each research thrust area, with members from within JU and external experts.
8. Duration of RUSA 2.0 is up to **31 March 2020**. This means that ALL funding under RUSA 2.0 will end latest by 31 March 2020. All expenditure will have to be completed by that date. Please keep this in mind when submitting proposals/asking for funding/etc.
9. Broad guidelines under specific heads of budget are given below

## **1. Research Fellowship at Doctoral level**

Doctoral candidates will be selected under *JU-RUSA 2.0 Doctoral Scholarship* scheme for funding support based on applications received in the faculties and following an evaluation procedure as decided by the respective faculties. Faculties must frame guidelines before calling for applications under this head.

Number of positions in each faculty will be as under:

Faculty of Arts – 40

Faculty of Engg. and Tech. – 35

Faculty of Science – 25

Doctoral candidates of FISLM may apply to the faculty in which she/he has registered for PhD. Two positions each in the three Faculties (Arts, FET, Science) will be kept aside for applicants from the ISLM faculty. In case suitable applications are not received from ISLM, these positions will be opened for the parent faculties.

Only **registered doctoral students** of Jadavpur University in the respective faculties, who are not receiving any fellowship/scholarship as well as those receiving State Fellowship or the Government of West Bengal's Swami Vivekananda Merit-cum-Means Scholarship Scheme (Non-NET) Fellowship or similar fellowships/scholarships may apply. If selected, they will have to surrender the other scholarships/fellowships they may be receiving before joining the present scheme. Candidates who are receiving fellowship under any National scheme will not be eligible to apply. Under no circumstance can a candidate receive this Fellowship along with any other scholarship/ funding.

The duration of the scholarship will be till March, 2020. Extension may be considered provided an extension of the RUSA 2.0 scheme takes place.

Fellowship amount: Rs. 30,000/- per month, consolidated.

Opening of Scheme:

Deadline for Submission of Application:

Selection process to be completed by:

## **2. Post-Doctoral Fellowships**

Post-Doctoral candidates will be selected under *JU-RUSA 2.0 Post-Doctoral Fellowship* scheme for funding support based on applications received in the faculties and following an evaluation procedure as decided by the respective faculties. Number of positions in each faculty will be as given below:

Faculty of Arts: 12

Faculty of Engg. and Tech.: 17+3 = 20

Faculty of Science: 7+3 = 10

Faculty of ISLM: 8

The positions will be open for all applicants. The candidates who have obtained the Doctoral degree of an Indian/Foreign University or Institute of National Importance in India or equivalent Institution may apply. The applications will be evaluated in the respective faculties following an evaluation procedure as decided by the respective faculties. Faculties must frame guidelines before calling for applications under this head.

The duration of the fellowship will be till March, 2020. Extension may be considered provided an extension of the RUSA 2.0 scheme takes place.

Fellowship amount: Rs. 50,000/- per month, consolidated.

Opening of Scheme:

Deadline for Application:

Selection process to be completed by:

### **3. Support to Faculty Members for attending Conference/Seminar/Workshop**

1. JU will provide support to all faculty members to attend International/National Conference/Seminar/Workshop under the RUSA 2.0 grant. The support will only be available for participating in a workshop; presenting papers (oral/poster), delivering keynote/invited lectures or for chairing a session of the conference/seminar.

2. Expected support will be as under:

(i) International Conference/Seminar/Workshop (outside India) – Funding support towards conference registration, air fare (shortest route, economy fare), daily allowance for boarding and lodging during the travel and conference period subject to the maximum ceiling of Rs. 1,60,000/-. Each faculty can avail **one** International Conference support during the duration of the scheme.

(ii) Conference/Seminar/Workshop (within India) – Funding support towards seminar/conference/workshop registration, air fare (shortest route, economy fare), daily allowance for boarding and lodging during the travel and seminar/conference/workshop period subject to the maximum ceiling of Rs. 40,000/-. Each faculty member can avail support to attend **two** Conferences/Seminars/Workshops within India during the duration of the scheme, unless there are not enough applicants, when the number might be increased.

3. NOTE: For a jointly-authored paper, only one author (who must be a JU faculty member) can avail of support under this scheme.

#### 4. **Regulations**

- (i) All full-time and contractual faculty members will be eligible to receive support
- (ii) All faculty members, including Assistant Professors and Contractual Faculty members, will be eligible for economy class air fare. Air travel should be through the shortest route.
- (iii) There will be no restriction on airline.
- (iv) The support will be given for a maximum period from one day before the seminar/conference/workshop to one day after the same for stay at the venue. Candidates will have to apply at least one month before the seminar/conference/workshop and receive approval before incurring any expenses.
- (v) Submission of acceptance/invitation letter is mandatory along with the application.
- (vi) Daily Allowance for board and lodging will be as per Government of India/UGC rates, subject to approval from the State Project Directorate (SPD) for RUSA 2.0, GoWB.
- (vii) Advance should be avoided as far as practicable, especially where party payment is possible. If urgently needed, advance will be made as per existing University rules.
- (viii) Officers will also be eligible under this scheme, but only to attend academic/administrative conference/seminar/workshop.

#### 5. **Application Flow**

- (i) Faculty members will apply to the Convener of the Project Monitoring Unit, JU-RUSA 2.0 (henceforth Convenor, PMU), Mr Indrajit Banerjee, in prescribed format (given on JU website) along with acceptance/invitation letter.
- (ii) Applications should be routed through the Head of the Department
- (iii) Applications will be reviewed and recommended by a committee (VC, JU - Chair, Pro-VC (PKG), Four Deans, Prof. Samantak Das, Prof. Amitava Datta)
- (iv) The Vice-Chancellor, JU, will give approval, which will be reported as soon as possible to the PMU, JU-RUSA 2.0.

#### **4. Research support to faculty members**

1. ***JU-RUSA 2.0 Major Research Support*** grants, with a maximum limit of Rs. 10 lakhs (for the full duration of the scheme), and ***JU-RUSA 2.0 Minor Research Support*** grants, with a maximum limit of Rs. 2 lakhs (for the full duration of the scheme) will be given to the faculty members of JU based on evaluation of their proposals by the Research Boards.
2. An individual faculty member or a team of faculty members (all of whom must be from JU) can submit a proposal for the grant; they need not belong to the same Department or School or Faculty.

3. Every proposal must indicate deliverables, and show verifiable outcomes, as specified in the RUSA 2.0 Guidelines on norm-based and outcome-dependent funding.

4. Proposals will be vetted and approved by Research Board/s, depending on the research thrust area/s of the proposed activity. Funding for the second year of RUSA 2.0 (i.e. 2019 – 2020) will depend on the assessment of outcomes of research activities.

#### 5. **Regulations**

(i) Every faculty member (or team of faculty members, all of whom must be from JU) will be eligible to apply for these grants.

(ii) The research support grant must be spent on any one or more of the five research thrust areas mentioned in General Principles at the beginning (also see Appendix at end).

(iii) Faculty members (or teams of faculty members) who apply for the grant will have to submit a proposal with justification, deliverables, and budget in the prescribed format (available on the JU website) and submit a detailed report with deliverables and outcomes after utilizing the grant money.

(iv) **No capital expenditure** can be made with the grant, but assistants and other personnel can be hired, as under the UGC-SAP or MRP/DST-PURSE "Hiring Services" mode.

(v) The funds **cannot** be used to pay journal/book publishers for publication of articles or books (whether online or print).

(vi) Consumables can be purchased; minor repairs on equipment carried out; upgrading and renewal of software can be done; peripherals can be bought; contingency expenditure can be incurred with this grant.

(vii) The grant amount can also be spent for attending academic events like seminars/workshops and so on, at the national or international level. This will be over and above the travel grant in 3 (Support to Faculty Members for attending Conference/Seminar/Workshop) above. The regulations mentioned there will hold.

(viii) IMPORTANT NOTE: Clarification has been sought from RUSA as to whether the funds can be used for purchase of laptops or desktop PCs. Until such time as this clarification is received, no laptops or desktop PCs (which includes assembled machines for which components have been bought/billed separately) can be purchased with this grant.

#### 6. **Application Flow**

(i) Faculty members will apply to the Convener, PMU, in prescribed format (given on JU website), naming the research thrust area, justification, and budget.

(ii) Applications will be reviewed and recommended by the appropriate Research Board/s.

(iii) The Vice-Chancellor, JU, will give approval, which will be reported as soon as possible to the PMU, JU-RUSA 2.0.

(iv) Disbursement of funds and settlement of accounts will be like the UGC Major/Minor Research Project Scheme system (except that there can be no capital expenditure in this case), through the Central Monitoring Cell (CMC), JU.

## **5. International and National Academic Networking and Collaboration**

1. International and National Academic Networking has been envisaged primarily in terms of **improving international and national academic links**. Under RUSA 2.0, it is envisaged that some 30 international and 30 national experts/teachers will be invited, to help build networks of research and academic collaboration. More experts/teachers may be invited, if the duration of stay is less than the period specified below.

2. The maximum amount that can be spent on an invited expert/teacher, per month, is as follows.

Invited experts/teachers will be entitled to honorarium as under:

- international experts/teachers: maximum \$2,500/- in a month, for a maximum period of **three months**.

- Indian experts/teachers: maximum Rs. 75,000/- in a month, for a maximum period of **five months**.

There will be a maximum limit of Rs. 50,000/- per month per invited expert/teacher for **all** expenses relating to local hospitality/local travel/other expenses/etc.

3. Airfares (shortest route, cheapest fare) will be paid separately to all invited experts/teachers, on actuals. (Note: A maximum sum of Rs. 2.0 lakhs can be spent on international airfare for a foreign expert/teacher.)

4. Invited experts/teachers should contribute to the RUSA 2.0 research thrust areas, and be attached to a Department or School. They will be expected to deliver lectures, take classes, be involved in field-trips/lab work, as decided by the School/Department. In keeping with RUSA's mandate, public lectures for a general audience should be arranged.

### ***5. Application Flow***

(i) The name of an expert/teacher who is to be invited should come from a Department/School with a BOS/Academic Committee recommendation. A letter/e-mail from the invited individual expressing willingness to come and indicating the duration of stay should accompany the application. The research thrust area should be mentioned in the application.

(ii) Applications will be reviewed and recommended by a committee (VC, JU - Chair, Pro-VC (PKG), Four Deans, Prof. Samantak Das, Prof. Amitava Datta)

(iii) The Vice-Chancellor, JU, will give approval, which will be reported as soon as possible to the PMU, JU-RUSA 2.0.

(iv) Disbursement of funds and settlement of accounts will be like the UGC Merged Scheme/UGC-SAP "Visiting Faculty"/GIAN system, through CMC, JU.

## **6. Support to students for attending conferences/workshops/other programmes**

1. This support will be available to all full-time regular students and full-time registered research scholars of the University.

2. The event to be attended **must** be in one of the research thrust areas, or in areas related to innovation and entrepreneurial activities. It **cannot** be used to attend non-academic events/programmes; it **can** be used for joining prestigious internships.

3. Applications must be forwarded by HOD/Director of Department/School to Convener, PMU.

4. Can be used for national and international events, subject to a maximum of Rs. 20,000/- for a national and Rs. 80,000/- for an international event.

5. Funds may be used for travel (including airfares; cheapest ticket); registration fees; local accommodation. Maximum permissible Daily Allowance will be as under:

- within India: @ Rs. 2,000/- per day

- outside India: @ US\$ 60/- per day

6. A student can attend ONE International (support limit: Rs. 80,000/-) and ONE National (support limit: Rs. 20,000/-) programme, with a maximum total support of Rs. 1,00,000/-, inclusive of all expenses, over the whole period of RUSA 2.0.

## ***7. Application Flow***

(i) A student will apply to the Convener, PMU in prescribed format (available on JU website), naming the research thrust area, justification for attending the event, letter of acceptance/invitation, and budget.

(ii) Applications must be recommended and forwarded by the HOD/Director of Department/School.

(iii) Applications will be reviewed and recommended by a committee (VC, JU - Chair, Pro-VC (PKG), Joint Registrar, Dr Sanjay Gopal Sarkar, Dean of Students, JU)

(iv) Following recommendation, VC, JU, will approve the grant, which will be reported as soon as possible to the PMU, JU-RUSA 2.0.

(v) Disbursement of funds and settlement of accounts will be like the UGC Merged Scheme system. Students will NOT be entitled to take advance. If urgently needed, a faculty member of the Department or School to which the student is attached can take advance on their behalf.

### **7. Support to encourage student entrepreneurship and innovation**

1. A sum of Rs. 20 lakhs, from the budget head “Incubation Centre” has been earmarked to make small grants (maximum limit Rs. 20,000/- per grant) to students who wish to take up an activity that shows entrepreneurial vision and/or the spirit of innovation.
2. Applications must be recommended by the Head/Director of the Department/School to which the student is attached.
3. Applications will be reviewed and recommended by a committee (VC, JU - Chair, Pro-VC (PKG), Joint Registrar, Dr Sanjay Gopal Sarkar, Dean of Students, JU, Prof. Samantak Das, Prof. Amitava Datta)
4. Following recommendation, VC, JU, will approve the grant, which will be reported as soon as possible to the PMU, JU-RUSA 2.0.
5. Disbursement of funds and settlement of accounts will be like the UGC Merged Scheme system. Students will NOT be entitled to take advance. If urgently needed, a faculty member of the Department or School to which the student is attached can take advance on their behalf.

### **8. Support towards seminars/conferences/workshops**

1. A Department or School can ask for a maximum support amount of Rs. 4 lakhs, which may be used for one or more seminars/conferences/workshops organised by the Department/School.
2. Apart from the usual seminar/conference/workshop expenses (which should not exceed 50% of the budget), the funds can be used for travel/hospitality/honoraria for **invited** speakers/chairpersons (not other participants); airfares, including for foreign speakers/chairpersons can be paid; funds can be used to publish conference proceedings.
3. This support **can** be augmented by/supplemented with funds from other schemes/programmes (e.g. UGC-SAP); registration fees **can** be charged from participants, if felt appropriate.
4. The seminar/conference/workshop **MUST** be in one of the research thrust areas.
5. A Department or School can club together its fund with one or more Schools or Departments of JU for organizing a collaborative/joint seminar/conference/workshop. (Note: For such jointly-hosted events the BOS/Academic Committees of both bodies must give consent.)



6. NOTE: A Centre which is NOT attached to a Department may ask for support, not exceeding Rs. 50,000/-, for organizing an event of similar nature. (Funds for this may be spent from this head, or from Rs 20 lakhs to be kept aside specifically for support to Centres from the budget head “Incubation Centre”.) All Centres which are attached to Departments have to apply through the concerned Department to get funds under this head.

#### **7. Application Flow**

- (i) Departments/Schools will apply to the Convener, PMU, in prescribed format, with BOS/Academic Committee resolution; justification mentioning research thrust area; detailed budget; tentative schedule.
- (ii) Applications should be routed through the concerned Dean/s.
- (iii) The applications will be reviewed and recommended by a committee (VC, JU - Chair, Pro- VC (PKG), Four Deans, Prof. Samantak Das, Prof. Amitava Datta)
- (iv) The Vice-Chancellor, JU, will give approval, which will be reported as soon as possible to the PMU, JU-RUSA 2.0.
- (v) Disbursement of funds and settlement of accounts will be like the UGC Merged Scheme system, through the CMC, JU.

#### **9. Departmental support towards upgradation in research**

1. Support for research upgradation must be in Project Mode, and the projects funded under this head must be in one of the research thrust areas.
2. A maximum sum of Rs. 25 lakhs can be allocated for one project. A Department can apply for a maximum of **two** projects and other entities (Schools/Centres/Programmes) can apply for **one** project. The proposals will be evaluated by the Research Board/s and funds will be sanctioned based on the assessment.
3. The protocols and processes for using the amount will be like that of utilizing the “Recurring” component in the UGC-SAP and UGC-UPE schemes, including for hiring services or taking on Project Fellows.
4. The money CANNOT be used to purchase equipment (which includes laptops or desktops, including assembled machines for which components have been bought/billed separately) or for other capital expenditure.
5. It **can** be used for repair of existing equipment, upgrading or renewal of existing software, Maintenance Contract for existing equipment, hiring of manpower for the project and so on.
6. It **can** be used to purchase consumables.
7. It **cannot** be used for travel or for attending conference/seminar/workshop.

## 8. *Application Flow*

- (i) Departments/Schools/etc will apply to the Convener, PMU, in prescribed format, with BOS/Academic Committee resolution; justification, research thrust area, deliverables, and outcomes; with a **detailed budget**.
- (ii) Applications should be routed through the concerned Dean/s.
- (iii) The applications will be reviewed, vetted, and approved by Research Board/s, depending on the research thrust area/s of the proposed activity. Funding for the second year of RUSA 2.0 (i.e. 2019 – 2020) will depend on the assessment of outcomes of research activities, so the project objectives must be very clearly defined. The VC or Pro-VC will sign the approval.
- (iv) Disbursement of funds and settlement of accounts will be like the “Recurring” component of UGC-SAP/DST-PURSE programmes, through the CMC, JU.

## APPENDIX

### A brief note (indicative, not comprehensive) on research thrust areas under RUSA 2.0

**Advanced Materials Research:** Among the research areas under this broad rubric, Earth Sciences with its in-built multidisciplinary approaches play a crucial role in material research that ranges from harvesting material from mother earth, extraction of material from its parent bodies and enhances its physicochemical durability and resistance to stress. Societal indicator is the development of chemical knowledge of material and its application to economic growth and environmental sustainability. In addition, the synthesis of new materials of different dimensions and functionalities has brought a paradigm shift to industry in particular and to quality of life in general. Scientific support and ideas will be extended to and exchanged with other developing institutions, especially in Eastern and North-Eastern India.

**Translational Research:** The idea of *translation* has been fundamental to societal development. In today's context, it is necessary to reiterate that even fundamental research must feed back into society. There are shifts in knowledge paradigms to be sure but they must and do serve social purposes, which must be identified for a fuller appreciation of the imperatives of research. In very recent years, Government of India has envisaged Translational Research feeding into various policy areas such as the flagship 'Make in India' program. Such synergy can help to open up effective avenues of applied research to develop products and processes for the benefit of society at large. ICTR will leverage innovations to translate or bridge popular commonsense and fundamental research. It will be dynamic and interactive with a mission to develop research collaborations across disciplines and institutions as well as with stakeholders outside the academy. Research under this heading will promote technology transfer to industry.

**Smart and Intelligent Cyber-Physical Systems:** Research in Cyber-Physical Systems (CPS) is revealing numerous opportunities, particularly in South Asian countries like India. For example, water-borne diseases in India kill many lives. Floods and water-logging can potentially increase the transmission of communicable diseases. Water quality monitoring and controlling water contamination can save the lives of the inhabitants in the country. A cyber physical system developed for electrical power grids can ensure maximal utilization of sustainable energies and improve the safety, reliability and efficiency of the grid. Use of sensors and mobile technologies can facilitate access to healthcare in the rural and remote areas of South Asian countries like India. The smart city vision of the government can be accomplished with the use of advanced technologies and computing for controlling urban physical infrastructure including transportation, waste and sewage etc. CPS can also be successfully used in disaster management, health care applications, the agricultural sector and many other sectors.

**Sustainable Development:** Sustainability is the primary requirement in the national development of the country for a greener future for the generations to come. The human development index is not only dependent on the economy of a country but also on education and health. Energy is a basic requirement for growth in the modern world and the per capita energy demand of a country strongly relates with the GDP. Electricity generation at present is primarily based on thermal plants. Considering the adversities of the thermal power generation on the environment and depletion of fossil reserves, the Government of India has already made a plan to shift towards non-conventional generation based on renewable resources. Therefore, research in the energy sector has a great relevance towards sustainable development in India. Research on restricting environmental degradation by arresting the carbon loading and reducing the emission of other pollutants should also find importance. A research thrust is also required with respect to water resource management, not only for pure drinking water, but also for flood

control and disaster management. Further, India being a land of agricultural and natural products, emphasis needs to be given on the great possibility of the medicinal and other uses of these products. Sustainable manufacturing methods will also be an important area of research under this thrust area.

***Studies in the Global South*** will critically examine all aspects of life, culture, and society in the Global South and help in creating tools and protocols that will further inter- and intra- national and regional cooperation. Such tools and protocols, it is envisaged, will come about through the rigorous, critical, and nuanced, analysis of data collected through fieldwork; from the examination of already-existing archives and the creation of new archives where necessary in both physical as well as digital forms. The research carried out under this broad rubric will create an environment for inter- and multi-disciplinary research to feed into work that is being done on any aspect of human life in the Global South, and not restrict itself into the realm of the so-called “humanities” or “social sciences”. It is envisaged that such research will eventually lead to the creation of other resources including (a) a South Asian Resource Centre for ‘Cultures of the Body’, (b) a Research Institute for Traditional Wisdom and Indic Knowledge (RITWIK), which will be an inter-university consortium for interdisciplinary researches related to Sanskrit and Indology; it will develop tools and skills for deciphering and analysis of texts from ancient Indian manuscripts and epigraphic materials and study the spread of Indic knowledges across Asia; (c) a Himalayan Studies Resource Centre, which will facilitate and participate in comprehensive research work on various aspects of the Himalayas, with the active involvement of communities from the region.

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