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| NTU EdeX Teaching and Learning Grant 2022-2023 (2nd Call) |

##### Introduction

* 1. NTU EdeX Grants are designed to promote the development of strategies to enhance the quality of teaching and the student learning experience. The EdeX Teaching and Learning grant provides monetary support for scholarly projects that seek to improve teaching and student learning by using research methods and making the results known to the campus community and beyond.
	2. Grant holders will be expected to develop significant learning strategies that are new (not necessary original in a global context) and based on the findings of current pedagogical research into effective learning and teaching in higher education. They are intended to foster a broader culture in the University that nurtures and supports that primary objective. They are also designed to promote faculty involvement in the scholarship of teaching and learning, with publication in that area as one desired outcome.
	3. Grant holders will implement their projects in the courses or programs that they teach (lectures, tutorials, laboratories, etc) and evaluate their outcomes and effectiveness. It is desirable, though not mandatory, for the projects to be undertaken by a team, rather than by individuals.
	4. While all proposals are welcomed, and will be considered in all aspects of university teaching and learning, specific sub-themes will be identified for special consideration and emphasis.
	5. The amount awarded to each grant will normally be up to $40,000 but grants of smaller amounts will be considered favourably**. The period of support is up to 18 months from the award of the grant**.
	6. EdeX Grants will not be awarded to projects that should normally be supported by Schools, such as the development of new courses, course reviews, projects already under the TEL initiative, and so on.

##### Themes

* 1. There are three themes to choose from, “Engaged and Lifelong Learners”, “Learning Analytics” and “Industry as Partners”.

**Engaged and Lifelong Learners.** To promote research into lifelong learning in NTU students, through the development of new opportunities, technology, or improved pedagogy and innovations in both learning and practice.

**Learning Analytics.** To promote studies on the use of analytics to improve teaching and learning at the 1. micro (individual course level), 2. meso (programme, school or college level) or 3. macro-level (university level). The types of learning analytics employed could be descriptive, diagnostic, predictive and prescriptive analytics.

**Industry as Partners.** To promote scholarship into the efficacy of educational partnerships with industry. Research can examine, but is not limited to, engaging industry as partners in developing curriculum, assessments, teaching and learning resources, research, and projects relevant to workplace readiness.

NB. The EdeX panel will also consider applications that do not come under these themes if they address current issues and strategies in NTU Education 2025.

* 1. EdeX grants are to be used to support the successful development, implementation, evaluation, and dissemination of initiatives that involve sustainable change in teaching and learning. Proposals that involve significant start-up costs or hardware components could be co-funded by Schools and Colleges. (**Please note that the EdeX grant itself cannot be used for the purchase of hardware**.) It is intended that the roll-out implementation thereafter will have the full support of the Schools as part of their operational and formal offerings in the program/subject/course curriculum.
	2. While there is no quota for any Schools, it is intended that such grants for teaching innovations be supported by all in the pursuit of teaching excellence. Preference will be given to projects that have a clear intention to enhance the quality of learning for students.

##### Applicant Eligibility

3.1 Application is open to all full-time members of NTU.

3.2 We strongly encourage the formation of a project team when submitting the EdeX proposal. Team members can be other faculty members from the same or different Schools. It can also include non-faculty members (like technical staff) and industrial or business partners. The roles of such team members must be meaningful, and their contribution to be clearly documented.

3.3 Priority will be given to applicants who have previously not received an EdeX Grant. We strongly encourage PIs who have received the EdeX Grant to apply for other educational research grant such as the MOE Tertiary Research Fund (TRF) Grant and MOE Science of Learning (SoL) Grant.

##### Application and Selection

* 1. The PI of the EdeX grant application is required to complete the Forms in **Annex A**. In addition, the PI (along with the team, if needed) is encouraged to contact the EdeX Grant Administrator (EdeXGrant@ntu.edu.sg) to obtain comments and guidance on the preparation of their grant application.
	2. PIs without prior experience with managing research grants are strongly advised to collaborate with a Co-PI who to draw on their research experience.
	3. The completed form should be a maximum of **6 A4 pages** (minimum 11 point font – Arial or Times New Roman; minimum margins of 2cm) excluding the Endorsement. No additional appendix should be included apart from those listed in the Application Form.
	4. All applications must be endorsed by the Chair of the School with whom the PI is associated. Completed applications can be submitted electronically via RISE (https://fibi.ntu.edu.sg/), with the Application Form included in the attachment section. Within the Application Form, digital endorsements by the Dean and Chair will be accepted.
	5. RISE will route your application to your School’s Research Support Office (RSO), then to the Associate Chair Research (HOD) for approval before it reaches the EdeX Grant Administrator (GM). Do submit your application early to accommodate the additional time that might be needed for the workflow and approval process in RISE.
	6. A new research account needs to be created for new grant holders for the disbursement of grant money upon completion of the Data Management Plan (DMP). Please contact your school’s RSO for more information on this process.
	7. Applications will be considered by the EdeX Selection Panel. Shortlisted applicants will be notified and asked to prepare a 10-minute pre-recorded video presentation. This will be followed by an invitation to attend a 10-minute Q&A session by the panel. The Panel will comprise:
	+ Representative from each College (including TEA Fellows)
	+ Representative LKCSoM
	+ Representative from NIE
	+ Head, CTLP or delegate

##### Project Management

* 1. Projects should be completed within an **18-month** period or less from the time of the grant. Project extensions may be granted upon application, supported by justifications and/or proposals for new related endeavours.
	2. PIs are responsible for all aspects of managing the project including the hiring of personnel and management of research funds, which must comply with the respective School’s policy and guidelines.
	3. All research involving students as research subject require IRB approval. It is the responsibility of the PI to apply for IRB approval. Approval is not required upon submission of the proposal. We strongly advice to apply the IRB early to avoid delays in starting your study.
	4. All monies will be disbursed upon award of the grant. In order to help awardees with the financial planning, PIs will need to submit a Budget Phasing form upon award of the grant and completion of the Data Management Plan (DMP).
	5. Subsequent changes to projected expenses will require the submission of a grant variation and is subject to approval by the Director of CTLP and the Deputy Provost (Education).

##### Obligations of Project Grant Awardees

* 1. All successful grant holders will be expected to commit to the following:
1. **An Annual Progress Report** is due one year from the date the grant is awarded. In the event that the project is shorter than one year, only a Final Report is required.
2. **A Final Report (including a Financial Statement of Account),** will be produced for distribution at the Showcase and made available to the wider University community. Each project leader is responsible for providing this report to the CTLP by the end of the project closing date as stated in the award letter.
3. **An EdeX Showcase** which may include conference presentations, open educational resources, and peer-reviewed publications.

##### Important Dates

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| Applications Open | 17 October 2022 |
| EdeX Grant Briefing Session | 18 October 2022 |
| Application Closing Date | 29 November 2022 |
| Presentation of shortlisted grants | early January 2023(to be confirmed) |
| Results announcement | mid February 2023 |
| Project commence | 1 April 2023(to be confirmed) |
| Project Completion | 30 September 2024 (to be confirmed) |

**Annex A: Application for NTU EdeX Grants 2022-2023** (please remove text in blue)

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| 1. **Project Title**

(15 words max) |  |
| 1. **Project Summary**

(up to 250 words) |  |
| **Keywords**(up to 5 keywords) |  |

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| 1. **Research Team**
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| **i) PI** Please attach a 1 page CV of the PI in Appendix B. Include academic qualifications, work experience, relevant grants and publications | **Name*****with e-mail address******and telephone***  | **School** | **Details of previous Grant Awarded** **(up to 3)** |
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| **ii) Co-PIs & Collaborator**Please attach a 1 page CV of the PI and all Co-PIs in Appendix B.  | **Name** | **Role and Contribution** | **Details of previous Grant Awarded** **(up to 3)** |
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\*we strongly recommend that PIs without prior research experience to collaborate with colleagues who have research experience to help with research design and project management

1. **Types of application**

This research proposal is a :

[ ]  New Application

[ ]  Resubmission (Eligible for those who have been advised by the EdeX panel reviewers in a previous grant call to revise and resubmit. Not eligible for previously rejected proposals.)

[ ]  Continuation of existing grant

If this is a resubmission, please describe succinctly, in no more than 150 words, how this proposal has been adjusted:

1. **Theme**

Please select the relevant theme that you are applying for:

[ ]  Theme 1: Engaged and Lifelong Learners

[ ]  Theme 2: Learning Analytics

[ ]  Theme 3: Industry as Partners

[ ]  Others (specify) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. **Please complete the following, under the sub-headings. Please keep this section to 5 pages.**

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| 1. Describe the **project aims.** What problem(s) in the area of teaching and learning are you trying to solve and how this project will address it? What are your research question(s) / hypothesis?
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| 1. Explain how the aims of the project are informed by the **relevant literature** (e.g. pedagogical literature, literature on disciplinary teaching, scholarship of teaching and learning)
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| 1. Describe the methods and procedures of the study, e.g. How would you recruit your participants? What are the steps involved? How would you collect the data? Briefly mention how you intend to analyse the data collected.
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| 1. What are the expected outcomes of the study in terms of student learning?
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| 1. Provide a summary of the proposed project activity and associated timeline

Use a Gantt Chart to illustrate your project timeline (below shows a sample Gantt Chart). The same Gantt Chart should be used to show your progress in the Annual and Final Progress Report. Please factor in any delays that you may face when applying for IRB.

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| \***Milestones** | **Year 1** | **Year 2** |
| **Q1** | **Q2** | **Q3** | **Q4** | **Q1** | **Q2** |
| IRB Application |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Development of materials for project |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Pilot Implementation  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Data analysis |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Second phase implementation |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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| 1. Provide an overall budget for the research. Please fill in Appendix A for a detail breakdown of the items.

\*Note : Funding can be provided for research assistant, facilitation of workshops, focus groups (and other related activities); it cannot be used for capital items, leased items (eg. PCs) or international travel. Please check with your school’s finance office to ensure that the items are budgeted

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| **Vote** | **Budget Requested** | **Total ($)** |
| Year 1 | Year 2 |
| A. EOM |  |  |  |
| B. OOE – Materials and Consumables |  |  |  |
| B. OOE - Subject/Volunteer Payment |  |  |  |
| B. OOE – Miscellaneous Cost |  |  |  |
| Total budget |  |  |  |

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1. **Chair of School Endorsement**

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| Signature: Name: | Date: |

**Appendix A : Detailed Budget**

*PIs are reminded to check with your school’s Research Support Office to ensure that items budgeted are permitted and within the appropriate category. Any changes in category requires a submission of a grant variation via RISE and is subject to approval by the Director of CTLP and the Deputy Provost (Education). Please see* ***Appendix C*** *for our recommended budgeting guidelines.*

**EOM**

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| --- | --- | --- | --- | --- | --- |
| Staff Category | No. | Cost per head | Year 1($) | Year 2($) | Total($) |
| Student assistant | 15 | $10/hour | 500 | 800 | 1300 |
| Subtotal |  |  |  |

\* Please consult with your school’s research office on the hiring process to ensure proper budgeting. Most PIs encounter problems when hiring staff due to administrative issues.

\* Based on previous applicants, we strongly do not recommend hiring full-time staff due to the grant duration and lengthy hiring process involved. If you wish to hire a full time staff, please provide a strong justification

**Justification**

Student assistant (SA) – We intend to hire 10 SA to assist with the data collection in year 1 and 5 SA to assist with data collection in Year 2. The SA will be deployed around various locations in campus to collect data through observation field notes.

Year 1 - $10/hour x 10 SA x 5 hours = $500
Year 2 - $10/hour x 5 SA x 8 hours = $800

**OOE - GST to be included, where appropriate**

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| --- | --- | --- | --- |
| Item | Year 1($) | Year 2($) | Total ($) |
| Materials & Consumables |  |  |  |
|  |  |  |  |
| Subject/Volunteer Payment |  |  |  |
|  |  |  |  |
| Training/ Miscellaneous Cost  |  |  |  |
|  |  |  |  |
| Grand Total |  |  |  |

Please provide justification for each category. Any item above $2,000 requires a strong justification. If a vendor will be engaged, kindly provide a quotation.

**Appendix B : CV**

**Appendix C : Guidelines on Budgeting**

**EOM (Manpower)**Student Assistant (Degree) - $10/hour
Student Assistant (Masters) - $15/hour

**OOE (Materials & Consumables)**Items or services (e.g., reference materials, subscriptions) are allowable only if these are directly related to the project. PIs should consult with their respective Schools and/or the university on the availability of such items/services to ensure that amount funded are utilise appropriately.

**OOE (Subject/Volunteer Payment)**Surveys - $5-$10 / per survey
Individual Interviews or Focus Group - $10/hour

*For accountability, we recommend that PIs reimburse participants using vouchers / gift cards (e.g., Starbucks). PIs are to keep a record on the voucher distribution. We generally do not recommend reimbursement for transport / food allowance unless strong justification is provided.*

**OOE (Miscellaneous)**

**Transcription**Simple transcribing (one-on-one or one-on-two) - $35 / audio-hour
Simple transcribing (with translation) - $56 / audio-hour
Classroom talk / focus group (>3 participants) - $60-80\* / audio-hour
*\* remuneration is based on complexity of the recording*

**Not fundable under EdeX Grant**

Equipment – computer, recording devices, cameras, Raspberry Pi

Teaching Release

Journal publication cost

Conference fees and travel

Course development fees