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|  ***DEVELOPMENT AND ECOSYSTEM*** ***RESEARCH GRANT SCHEME (DEcoR)******APPLICATION FORM 2023***Borang PermohonanSkim Geran Penyelidikan Pembangunan dan Ekosistem 2023*Pusat Pengujian, Pengukuran dan Penilaian (CeTMA),**Universiti Utara Malaysia,**06010 UUM Sintok,**Kedah Darul Aman**04-928 4986/04-928 4987* |
| ***MODE OF APPLICATION* / MOD PERMOHONAN**

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|  | **Mode 1 / Mod 1**  |  | **Mode 2 / Mod 2** |
|  | *Application for research using grant scheme with amount (RM) from DEcoR* Permohonan penyelidikan menggunakan skim geran dengan amaun (RM) daripada DEcoR |  | *Application for research with financial support (RM) from project owner*Permohonan penyelidikan dengan tajaan kewangan (RM) daripada pemilik projek |

 |
| 1. ***DEVELOPMENT AND ECOSYSTEM PROJECT INFORMATION (Matching project)***

 MAKLUMAT PROJEK PEMBANGUNAN DAN EKOSISTEM (Projek padanan)\**please refer to Development and Ecosystem Project List* / sila rujuk Senarai Projek Pembangunan dan Ekosistem |
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| ***Title of Project***Tajuk Projek | : |  |
| ***Project Owner***Jabatan Pemilik Projek | : |  |
| ***Cost of Project (RM)*** Kos Projek (RM) | : |  | ***Location of Project***Lokasi Projek | : |  |
| ***Starting Date*** Tarikh Mula | : |  | ***Completion Date***Tarikh Siap | : |  |

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| **(2) *APPLICATION INFORMATION* /** MAKLUMAT PERMOHONAN |
| **A** | ***TITLE OF PROPOSED RESEARCH* /** TAJUK PENYELIDIKAN YANG DICADANGKAN |
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| **B** | ***DETAILS OF RESEARCHER*** / MAKLUMAT PENYELIDIK |
| **(i)** | ***Name of Project Leader/***Nama Ketua Projek (\**Academician Only* / Ahli Akademik Sahaja)  |
| ***Staff ID /*** No.Pekerja | ***I/C No. /*** No. Kad Pengenalan | ***CoE/RU/School*** |
| ***Status/***Status (***Please Tick/***Sila Tanda (/)

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| *Permanent/*Tetap |  | *Expected Retirement Date/*Tarikh Jangka Pencen: |  |
| *Contract/*Kontrak |  | *Contract Expiry Date/*Tarikh tamat kontrak: |  |

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| **(ii)** | ***Designation (Please tick*** *√* ***) /*** Jawatan (Sila tanda √ )

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| --- | --- | --- | --- |
|   | ***Professor/***Profesor |  | ***Associate. Prof.****/*Prof. Madya |
|  |  |  |  |
|  | ***Senior Lecturer/***Pensyarah Kanan |  | ***Lecturer/***Pensyarah  |

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| **(iii)** | ***Handphone No. /*** Tel. Bimbit |  |
| ***Office no. /*** Tel. Pej. |  |
| ***Fax /*** Faks |  |
| ***Email /*** E-mel |  |
| **C** | ***RESEARCH INFORMATION* /** MAKLUMAT PENYELIDIKAN |
| **(i)** | ***Research Category (Please Tick* √)**Kategori Penyelidikan (Sila tanda √)

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| --- | --- | --- | --- |
|  | *Science and Technology* |  | *Non Science and Technology* |

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| **(ii)** | ***Niche Area (Please tick √)***Bidang Tujahan (Sila tanda √)

|  |  |  |  |
| --- | --- | --- | --- |
|  | *Leadership and Institutional Building* |  | *Law and Governance* |
|  | *Business Innovation and Entrepreneurship* |  | *International Relations,* *Security & Regional Cooperation* |
|  | *Creative and Media Management* |  | *Smart Digital Opportunities* |
|  | *Economic and Financial Analysis and Policy* |  | *Community Development and Social Harmony* |

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| **(iii)** | ***Technology Readiness Level (TRL) Scale*** Skala Tahap Kesediaan Teknologi

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| --- | --- |
|  | ***1: Basic Research*** |
|  | ***2: Technology Formulated*** |
|  | ***3: Proof of Concept*** |
|  | ***4: Feasibility Demonstration*** |
|  | ***5: Technology Development*** |

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| **(iv)** | ***Sustainable Development Goals (SDG)*** ***(Please tick √)***Matlamat Pembangunan Lestari (Sila tanda √)***\*Please refer to*** / Sila rujuk[https://myuum2.uum.edu.my/epost/cetma/Pelan%20Strategik%20CeTMA/Bukti%202021/Pengenalan%20kepada%20%20SDGs%20(1).pdf](https://myuum2.uum.edu.my/epost/cetma/Pelan%20Strategik%20CeTMA/Bukti%202021/Pengenalan%20kepada%20%20SDGs%20%281%29.pdf)

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|  | ***Goal 1: No poverty/***Tiada Kemiskinan |
|  | ***Goal 2: Zero hunger***/Kelaparan Sifar |
|  | ***Goal 3: Good health and well-being/***Kesihatan Baik dan Kesejahteraan |
|  | ***Goal 4: Quality education/***Pendidikan Berkualiti |
|  | ***Goal 5: Gender equality/***Kesaksamaan Gender |
|  | ***Goal 6: Clean water and sanitation/***Air Bersih dan Sanitasi |
|  | ***Goal 7: Affordable and clean energy/*** Tenaga Berpatutan dan Bersih |
|  | ***Goal 8: Decent work and economic growth/***Pekerjaan Yang Sesuai dan Pembangunan Ekonomi |
|  | ***Goal 9: Industry, innovation, infrastructure/***Industri, Inovasi dan Infrastruktur |
|  | ***Goal 10: Reduced inequalities/***Mengurangkan Ketidaksamaan |
|  | ***Goal 11: Sustainable cities and communities/***Bandar dan Masyarakat Mampan |
|  | ***Goal 12: Responsible consumption, production/***Penggunaan dan Pengeluaran Bertanggungjawab |
|  | ***Goal 13: Climate action/***Tindakan Terhadap Iklim |
|  | ***Goal 14: Life below water/***Kehidupan dalam Air |
|  | ***Goal 15: Life on land/***Kehidupan di Darat |
|  | ***Goal 16: Peace, justice and strong institutions/***Keamanan, Keadilan dan Pertubuhan Kukuh |
|  | ***Goal 17: Partnerships for the goals/***Kerjasama demi Matlamat |

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| **(v)** | ***Duration of this research (Maximum : 18 months):***Tempoh masa penyelidikan (Maksimum : 18 bulan):

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| --- | --- | --- | --- |
| ***Duration*** */* Tempoh | : |  | *months* / bulan |
| ***From* /** Dari | : |  | ***To* /** Hingga | : |  |

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| **(vi)** | ***Other Researchers*** Ahli-ahli penyelidik yang lain (\*Must include at least ONE individual from the owner of the development project / Perlu melibatkan sekurang-kurangnya SATU individu daripada pemilik projek pembangunan)

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| ***NO.***BIL. | ***NAME***NAMA | ***STAFF ID***NO. PER. | ***STATUS*** */* STATUS | ***NEXT APPOINTED LEADER/*** *Please tick (√) one only /Sila tanda (√) 1 sahaja* | ***SIGNATURE***TANDATANGAN |
| **PERMANENT**/ TETAP | **CONTRACT**/ KONTRAK |
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| D | ***PUBLICATION INFORMATION/ MAKLUMAT PENERBITAN******(Should be filled by Project Leader’s only)/(Diisi oleh Ketua Penyelidik sahaja)*** |
| (i) | ***Research projects that have been completed or ongoing by researchers for the last three years. Please provide title of research, grant name, role, year of commence, year ending and status of research progress***Sila sediakan maklumat termasuk tajuk, jenis geran, keahlian, tarikh mula, tarikh tamat dan status penyelidikan bagi penyelidikan yang sedang/telah dijalankan oleh penyelidik di dalam tempoh tiga tahun terakhir

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| --- | --- | --- | --- | --- | --- | --- |
| ***NO.*****BIL.** | ***TITLE OF RESEARCH*** TAJUK PENYELIDIKAN | ***GRANT* *NAME***JENIS GERAN | ***ROLE***KEAHLIAN(KETUA/ AHLI) | ***START DATE***TARIKH MULA | ***END DATE***TARIKH TAMAT | ***STATUS***STATUS |
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| (ii) | ***Please furnish information on academic publications that has been published by the researchers for the last three years. (Example : Journals, Books, Chapters in books, etc.)***Sila kemukakan maklumat berkaitan penerbitan akademik yang telah diterbitkan oleh penyelidik dalam tempoh tiga tahun terakhir. (Contoh : Jurnal, buku, bab dalam buku, dll.)

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| --- | --- | --- | --- |
| ***NO.*****BIL.** | ***TITLE OF PUBLICATION****/*TAJUK PENERBITAN | ***NAME OF JOURNAL/BOOKS***NAMA JURNAL/BUKU | ***YEAR OF PUBLICATION/***TAHUN DITERBITKAN |
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| **E** | ***DETAILED OF RESEARCH PROJECT* /** MAKLUMAT PENYELIDIKAN SECARA TERPERINCI |
| **(i)** | 1. ***Research background including Hypothesis/Research Questions and Literature* Reviews**

Keterangan latar belakang penyelidikan termasuk kenyataan hipotesis/persoalan penyelidikan dan kajian literatur1. ***Problem Statement***

Pernyataan Masalah1. ***Objective (s) of the Research***

Objektif Penyelidikan1. ***Research Methodology***

Kaedah Penyelidikan***Please state in the form/***Sila nyatakan di borang ini1. *Description of Methodology*
2. *Flow Chart of Research Activities ( Please enclose in the Appendix)*
3. *Gantt Chart of Research Activities (Please enclose in the Appendix)*
4. *Milestones and Dates*
5. ***Expected Results*/Benefits**

 Jangkaan Hasil Penyelidikan***Please tick (/) the related one(s) and state the indicator*** / Sila tandakan yang berkaitan dan nyatakan indikator:

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| --- | --- | --- |
| √ | Expected results / Jangkaan hasil | Indicator / Indikator |
|  | 1. Project key performance index
 | e.g. 20% energy reduced, 10% profit  |
|  | 1. Developed module / structured training
 | e.g. MOOC Trainers Development |
|  | 1. Inovation / new technology / system
 | e.g. Customer Real-time Feedback System |
|  | 1. Publication
 | e.g. policy paper, book, article jurnal |
| \* Outputs (a) to (c) must be registered through Innovation and Commercialization Centre (ICC) with at least one intellectual property |  |

1. ***Gantt Chart***

Carta Gantt***Provide Gantt Chart and state the output for the first six months.*** Sila sertakan carta gantt dan nyatakan output yang akan diperolehi dalam enam bulan pertama. |
| **F** | ***BUDGET*** */* BELANJAWAN |
|  | ***Please indicate your estimated budget for this research and details of expenditure according to the guidelines attached***Sila nyatakan anggaran belanjawan bagi cadangan penyelidikan ini dan berikan butir–butir perbelanjaan dengan lengkap |
| ***BUDGET DETAILS***BUTIRAN BELANJAWAN | ***AMOUNT REQUESTED BY APPLICANT***JUMLAH YANG DIPOHON OLEH PEMOHON |
| **(i)** | **Vote 11000 -** ***Salary and******wages***Upah dan Elaun  | *Please specify*Sila nyatakan secara lengkap dengan pecahannya sekali |
|  | ***BUDGET DETAILS***BUTIRAN BELANJAWAN | ***AMOUNT REQUESTED BY APPLICANT***JUMLAH YANG DIPOHON OLEH PEMOHON |
| **(ii)** | **Vote 21000 -** ***Travelling and Transportation***Perjalanan dan Pengangkutan | *Please specify*Sila nyatakan secara lengkap dengan pecahannya sekali |
| **(iii)** | **Vote 24000 -** ***Rental***Sewaan | *Please specify*Sila nyatakan secara lengkap dengan pecahannya sekali |
| **(iv)** | **Vote 27000 -** ***Research Materials & Supplies*** Bekalan dan Bahan Penyelidikan | *Please specify*Sila nyatakan secara lengkap dengan pecahannya sekali |
| **(v)** | **Vote 28000 –*****Maintenance and Minor Repair Services***Baik pulih kecil dan ubah suai | *Please specify*Sila nyatakan secara lengkap dengan pecahannya sekali |
| **(vi)** | **Vote 29000 -** ***Other Services***Perkhidmatan ikhtisas, yuran latihan, penerbitan dan percetakan hospitaliti | *Please specify*Sila nyatakan secara lengkap dengan pecahannya sekali |
| **(vii)** | **Vote 35000 -** ***Accessories and Equipment***Aksesori dan Peralatan | *Please specify*Sila nyatakan secara lengkap dengan pecahannya sekali |
| ***TOTAL AMOUNT***JUMLAH BESAR |  |
| **G** | ***DECLARATION BY PROJECT LEADER* /** AKUAN KETUA PROJEK |
|  | *Please tick (√)*/Sila tanda (√)*I hereby confess that /* Saya dengan ini mengaku bahawa*:*

|  |  |
| --- | --- |
|  | 1. ***All information stated here are accurate, University has right to reject or to cancel the offer without prior notice if there is any inaccurate information given.*** Semua maklumat yang diisi adalah benar, Universiti berhak menolak permohonan atau membatalkan tawaran pada bila-bila masa sekiranya keterangan yang dikemukakan adalah tidak benar.
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|  | 1. ***Application of this research is also presented for the other reasearch grants (grant’s name and total amount) - (if any)***

Permohonanprojek penyelidikan ini juga dikemukakan untuk memohon peruntukan geran penyelidikan |
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|  **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*****Project Leader’s Signature/*** Tandatangan Ketua Projek | **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*****Date***/Tarikh |

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| **H** | ***DECLARATION BY DEAN OF SCHOOL/DIRECTOR OF CoE/HEAD OF RU/ HEAD OF DEPARTMENT***AKUAN DEKAN/PENGARAH CoE/KETUA RU/KETUA PTJ |
|  | ***Please tick (√)/***Sila tanda (√)

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| --- | --- | --- | --- |
|  | ***Recommended*/**Disokong |  | ***Not Recommended****/*Tidak Disokong |

***Comments* /** Ulasan *:***\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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| *Dean/Director of CoE/Head of RU/Head of Dept.**Signature and Stamp*Tandatangan dan CopDekan/Pengarah CoE/Ketua RU/Ketua PTJ | **:** | ....................................................... | *Date/*Tarikh | **:** | .......................... |   |

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V7 – 5th review July 2023