**BORANG PERMOHONAN GERAN INSENTIF PENYELIDIKAN UNTUK PENGAJARAN DAN PEMBELAJARAN- PENYELIDIKAN KOLABORASI DI ANTARA FAKULTI KE ARAH KAMPUS PINTAR**

Dua (2) salinan borang ini mesti diserahkan kepada Pusat Pembangunan Akademik, Tingkat 4, Bangunan Canselori Putra, Universiti Putra Malaysia, 43400 UPM Serdang, Selangor

*Two (2) copies of this form must be submitted to the Centre for Academic Development (CADe), Level 4, Canselori Putra Building, Universiti Putra Malaysia, 43400 UPM Serdang, Selangor*

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| 1. **MAKLUMAT PERMOHONAN** *INFORMATION OF RESEARCH GRANT APPLICATION* | |
| 1. **Tajuk penyelidikan yang dicadangkan:**   *Title of proposed research:* |  |
| 1. **Bidang Penyelidikan (FOR):**   *Field of Research (FOR):* | |  |  | | --- | --- | |  | Kurikulum transformatif ke arah pendidikan tinggi abad ke-21 | |  | Inovasi pembelajaran imersif maya/teradun/ bersemuka | |  | Penaksiran alternatif | |  | Pembangunan sistem pengurusan maklumat bagi menyokong kampus pintar | |  | Reka bentuk semula ruang pembelajaran (*learning space*) | |  | Pengembangan inovasi pengajaran dan pembelajaran daripada projek penyelidikan GIPP terdahulu  Fokus pengembangan inovasipengajaran dan pembelajaran dari segi   1. Menaiktarafkan ciri-ciri inovasi yang telah dihasilkan; atau 2. Menerapkan inovasi yang telah dihasilkan ke bidang/disiplin lain; atau 3. Memantapkan sistem (termasuk dasar, mekanisme, prosedur) yang telah dihasilkan. | |

| 1. **MAKLUMAT PROJEK PENYELIDIKAN GIPP TERDAHULU (INOVASI DARIPADA PROJEK YANG INGIN DIKEMBANGKAN)** *RESEARCH INFORMATION THE PREVIOUS GIPP PROJECT* | |
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| 1. **Tajuk Penyelidikan:**   *Title of Research:* |  |
| 1. **No. Projek GIPP:**   *GIPP Project No.:* |  |
| 1. **Inovasi yang telah dihasilkan:**   *Innovation (s) produced:* |  |
| 1. **Jenis Perlindungan Harta Intelek (jika ada):**   *Type of IP Protection:* |  |
| 1. **No. Rujukan Harta Intelek (jika ada):**   *IP Reference No.:* |  |

| 1. **MAKLUMAT KETUA PROJEK** *DETAIL OF PROJECT LEADER* | | | | |
| --- | --- | --- | --- | --- |
| Sila lampirkan C.V. ringkas ketua projek  *Please attach brief C.V. of project leader* | | | | |
| 1. **Nama Ketua Projek:**   *Name of Project Leader:* |  | | | |
| 1. **No. Staf:**   *Staff No.:* |  | | | |
| 1. **Jawatan** (Sila Tandakan √):   *Designation (Please tick √):* | |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | |  | Profesor  *Professor* |  | Profesor Madya  *Associate Professor* |  | Pensyarah Kanan  *Senior Lecturer* | |  | Pensyarah  *Lecturer* |  | Lain-lain (Sila Nyatakan)  *Others (Please State) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_* | | | | | | |
| 1. **PTJ** (Sila nyatakan alamat penuh):   *PTJ (Please provide full address):* |  | | | |
| 1. **No. Telefon Pejabat:**   *Office Telephone No.:* |  | | 1. **No. Telefon Bimbit:**   *Mobile Phone No.* |  |
| 1. **No. Faksimili Pejabat:**   *Office Facsimile No.* |  | | | |
| 1. **Alamat e-mel:**   *E-mail Address:* |  | | | |
| 1. **Status Perkhidmatan:**   *Status of Service:* |  | Tetap  *Permanent* | | |
|  | Kontrak  *Contract*  Tarikh tamat kontrak:  *Contract expiry date:* | | |

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| 1. **MAKLUMAT PENYELIDIKAN** *RESEARCH INFORMATION* | |
| 1. **Tempoh Penyelidikan:**   *Duration of Research:* |  |
| 1. **Tarikh Mula:**   *Commencement Date:* |  |
| 1. **Tarikh Tamat:**   *End Date:* |  |
| 1. **Tempat penyelidikan dijalankan:**   *Location of Research:* |  |
| 1. **Ahli Penyelidik:** \*(Sila Lampirkan C.V. ringkas setiap penyelidik)   *Co-researchers: \*(Please attach brief CV of each researcher)*   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | **Bil.**  *No.* | **Nama**  *Name* | **No. Staf**  *Staff No.* | **PTJ** | **Kelayakan Akademik/ Pelantikan/ Bidang Pengajian**  *Academic Qualification/ Designation/ Field of Study* | **Tandatangan**  *Signature* | | 1. |  |  |  |  |  | | 2. |  |  |  |  |  | | 3. |  |  |  |  |  | | 4. |  |  |  |  |  | | 5. |  |  |  |  |  | | 6. |  |  |  |  |  | | 7. |  |  |  |  |  | | 8. |  |  |  |  |  | | 9. |  |  |  |  |  | | |

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| 1. **RINGKASAN CADANGAN EKSEKUTIF PENYELIDIKAN** *EXECUTIVE SUMMARY OF RESEARCH PROPOSAL* |
| Rumusan latar belakang penyelidikan, objektif penyelidikan, kesignifikanan, metodologi/kaedah penyelidikan, tempoh dan jangkaan hasil/faedah inovasi yang akan dihasilkan) – maksimum 300 patah perkataan  *Summary of research background, research objectives, significant, research methodology/research method, duration and expected outcomes/benefits of innovation produced) – maximum 300 words* |
| 1. **PERINCIAN CADANGAN MAKLUMAT PENYELIDIKAN** *DETAILED PROPOSAL OF RESEARCH PROJECT* |
| 1. **Latar belakang penyelidikan termasuk sorotan literatur**   *Research background including literature reviews* |
| 1. **Jelaskan bagaimana projek ini mengembangkan inovasi yang telah dihasilkan dalam projek terdahulu**   *Explain how this project will upscale the innovation produced from previous project* |
| 1. **Objektif Penyelidikan**   *Research objective(s)* |
| 1. **Signifikan inovasi yang dihasilkan** *Significance Innovation*   **Impak kepada pelajar**  **Impak kepada UPM** |
| 1. **Kaedah Penyelidikan**   *Research Methodology*  Sila nyatakan dan huraikan; *Please state in the;*   1. Huraian Kaedah *Desription of Method* 2. Carta Aliran Aktiviti Penyelidikan (Sila sertakan dalam Lampiran) *Flow Chart of Research Activities (Please attach in the Appendix)* 3. Carta Gantt Aktiviti Penyelidikan (Sila sertakan dalam lampiran) *Gantt Chart of Research Activities (Please attach in the Appendix)* 4. Milestones dan Tarikh *Milestones and Dates.*  |  |  |  | | --- | --- | --- | | **Milestones** | **Tarikh Mula** | **Tarikh Tamat** | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |

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| 1. **JANGKAAN HASIL/ FAEDAH** *EXPECTED RESULTS/ BENEFITS* | |
| 1. **Inovasi baharu yang dihasilkan**   *New innovations produced* | |
| 1. **Ilmu/teori/konsep/idea baharu**   *Novel knowledge/theories/ideas* | |
| 1. **Penerbitan Penyelidikan (Sila nyatakan jangkaan tarikh penerbitan dalam jurnal)**   *Research Publications (Please state the expected date of publications)* | |
| 1. **Harta Intelek**   *Intellectual Properties* | |
| 1. **BELANJAWAN** *BUDGET* | |
| **Sila anggarkan belanjawan untuk penyelidikan ini dan butiran perbelanjaan.**  *Please indicate your estimated budget for this research and details of expenditure.* | |
| **Butiran Belanjawan**  *Budget datails* | **Jumlah yang diminta oleh pemohon**  *Amount requested by applicant* |
|  |
| 1. **Vote 11000**   Gaji dan upahan *Salary and wages* |  |
| 1. **Vote 21000**   Perbelanjaan perjalanan dan pengangkutan (dalam negara sahaja)  *Travelling expenses and transportation (local only)* |  |
| 1. **Vote 24000**   Sewaan *Rental* |  |
| 1. **Vote 26000** Bekalan bahan penyelidikan serta bekalan bahan mentah dan bahan-bahan untuk penyenggaraan dan pembaikan \*termasuk vot 27000.   *Research materials, supplies raw materials and materials for repair and maintenance \*including vote 27000* |  |
| 1. **Vote 28000**   Penyelenggaraan dan pembaikan kecil  *Maintenance and Minor Repair Services* |  |
| 1. **Vote 29000**   Perkhidmatan profesional, hospitaliti dan lain-lain  *Professional services, hospitality, and other services* |  |
| 1. **Vote 35000** Peralatan khas dan aksesori   *Special equipment and accessories*  **Nyatakan justifikasi keperluan membeli peralatan khas/perisian dan aksesori yang dimohon:**   |  | | --- | |  | |  | |  | |  |
| **JUMLAH KESELURUHAN**  *TOTAL AMOUNT* |  |

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| 1. **AKUAN PEMOHON** *DECLARATION BY APPLICANT* | |
|  | **Saya dengan ini mengaku bahawa:**  *I hereby confess that:*  **Semua maklumat yang diisi adalah benar. Penaja berhak menolak permohonan atau membatalkan tawaran pada bila-bila masa sekiranya ada keterangan yang dikemukakan didapati tidak benar.**  *All information stated here are accurate. Funder has right to reject or to cancel the offer without prior notice if there is any inaccurate information given.*   |  |  | | --- | --- | | **Tarikh:**  *Date:* | **Tandatangan Pemohon:**  *Applicant’s Signature:* | |

**Contoh: Carta Gantt Aktiviti Penyelidikan, Milestone dan Tarikh**

*Example: Gantt Chart of Research Activities, Milestones and Dates*

**Tajuk penyelidikan dicadangkan:**

*Title of proposed research:*

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| Year | 2018 | | | | | | | | | | | | 2019 | | | | | | | | | | | |
| Project activities | J | F | M | A | M | J | J | A | S | O | N | D | J | F | M | A | M | J | J | A | S | O | N | D |
| 1. Project implementation plan write up |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2. Hyper-spectral data airbone mission |  | | | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3. Satellite data acquisition (new tasking) |  |  | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4. Field data collection & compilation |  |  |  | | | | | | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5. Data processing and analysis bio-D characterization |  |  |  |  |  | | | | | | | |  |  |  |  |  |  |  |  |  |  |  |  |
| 6. Development of Bio-change detection algorithm |  |  |  |  |  |  |  |  |  | | | |  |  |  |  |  |  |  |  |  |  |  |  |
| 7. Development of DST |  |  |  |  |  |  |  |  |  |  |  |  |  | | | | | |  |  |  |  |  |  |
| 8. Organize workshop |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |
| 9. Final report |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |
| Year | 2017 | | | | | | | | | | | | 2018 | | | | | | | | | | | |
| Project (Milestone) | J | F | M | A | M | J | J | A | S | O | N | D | J | F | M | A | M | J | J | A | S | O | N | D |
| 1. Complete BIO-D Characterization |  |  |  |  |  |  |  |  |  |  |  | ⬧ |  |  |  |  |  |  |  |  |  |  |  |  |
| 2. Complete Bio-Change Algorithm |  |  |  |  |  |  |  |  |  |  |  |  | ⬧ |  |  |  |  |  |  |  |  |  |  |  |
| 3. Complete DST development |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | ⬧ |  |  |  |  |  |
| 4. Complete Seminar |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | ⬧ |  |  |  |  |
| 5. Complete project report |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | ⬧ |  |  |  |
| 6. Project completion |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | ⬧ |  |  |