**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):* |

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|  | 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 segi1. 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.
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| 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*
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| 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 √):* |

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|  | Profesor*Professor* |  | Profesor Madya*Associate Professor* |  | Pensyarah Kanan*Senior Lecturer* |
|  | Pensyarah*Lecturer* |  | Lain-lain (Sila Nyatakan)*Others (Please State) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_* |

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| 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*
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| 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)*

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| **Bil.***No.* | **Nama***Name* | **No. Staf** *Staff No.* | **PTJ** | **Kelayakan Akademik/ Pelantikan/ Bidang Pengajian***Academic Qualification/ Designation/ Field of Study* | **Tandatangan***Signature* |
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| 1. **RINGKASAN CADANGAN EKSEKUTIF PENYELIDIKAN** *EXECUTIVE SUMMARY OF RESEARCH PROPOSAL*
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| 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.*

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| **Milestones** | **Tarikh Mula** | **Tarikh Tamat** |
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| 1. **JANGKAAN HASIL/ FAEDAH** *EXPECTED RESULTS/ BENEFITS*
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| 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:**

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| **JUMLAH KESELURUHAN***TOTAL AMOUNT* |  |

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| 1. **AKUAN PEMOHON** *DECLARATION BY APPLICANT*
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|  | **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.*

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| **Tarikh:***Date:* | **Tandatangan Pemohon:***Applicant’s Signature:*  |

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**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 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | ⬧ |  |  |