GUIDELINE

UTM FUNDAMENTAL RESEARCH (UTMFR) 2019

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<tr><th>ITEMS</th><th>DESCRIPTION</th></tr>
<tr><td>Introduction</td><td>UTM Fundamental Research (UTMFR) is a grant initiative to encourage new knowledge generation that could contribute to intellectual growth and creation of new technologies in line with UTM and national aspirations.</td></tr>
<tr><td>Objective</td><td>The UTMFR main objective is to generate new theories, concepts and ideas for the advancement of knowledge.</td></tr>
<tr><td>Application Requirements</td><td>1. Principal investigator can be any permanent or contract academic staff in UTM of all levels
2. For contract academic staff, project team members must include at least ONE (1) permanent academic staff
3. Minimum 2 team members for each project
4. Proposal must inline with UTM niche area (Appendix A)
5. Need to appoint 1 PhD student for 3 years project or 1 Master student for 2 years project as GRA</td></tr>
<tr><td>Grant Concept</td><td>Single Project</td></tr>
<tr><td>Duration</td><td>2 or 3 years</td></tr>
<tr><td>Grant Value</td><td>1. Maximum approved amount for each project is as follows:
<table><tr><td>Duration</td><td>2 years</td><td>3 years</td></tr><tr><td>Funding</td><td>RM70,000.00</td><td>RM100,000.00</td></tr></table>2. Allocation will be disbursed on a yearly basis based on performance.
3. Allocation for V11000 if appoint PhD GRA is between RM54,000 and RM72,000 (Min RM 1500/month – Max RM2000/month GRA allowance)
4. Allocation for V11000 if appoint Master GRA is between RM31,200 and RM43,200 (Min RM 1300/month – Max RM1800/month GRA allowance)

*No virement allowed for V11000</td></tr>
<tr><td>Research Location</td><td>The project can only be carried out in Malaysia</td></tr>
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<tr><td>Expected Output/ KPI</td><td>Output for the project are as follows:

<table><tr><th>Item</th><th>Output</th></tr><tr><td>Number of Articles in Indexed Journals</td><td>2 years - 1 Q1/Q2
3 years - 2 Q1/Q2</td></tr><tr><td>Human Capital</td><td>2 years - 1 Master student
3 years - 1 PhD student</td></tr></table></td></tr>
<tr><td>Application Process</td><td>All applications must be submitted ONLINE through RADIS</td></tr>
<tr><td>Evaluation Process</td><td>1. The assessment process will be carried out by the Research Alliance.
2. The researcher must ensure only high quality proposals and meet the requirements are submitted for assessment.
3. Selected proposals will be approved in the Research Proposal Assessment Panel Meeting.</td></tr>
<tr><td>Result</td><td>1. The decision of assessment and selection of the proposal is final.</td></tr>
<tr><td>Project Monitoring</td><td>1. The monitoring process will be carried out every June and December of each calendar year.
2. 2nd and 3rd year allocations will be disbursed based on the progress report findings and recommendations.
3. Each project must achieve the following milestone and financial performance for 2nd and 3rd year disbursement

<table><tr><th>Project Duration</th><th>Disbursement</th><th>Milestone</th><th>Financial</th></tr><tr><td>2 Years</td><td>2nd Year</td><td>50%</td><td>75% of the 1st year disbursed amount</td></tr><tr><td>3 Years</td><td>2nd Year</td><td>33%</td><td>75% of the 1st year disbursed amount</td></tr><tr><td></td><td>3rd Year</td><td>66%</td><td>75% of the 2nd year disbursed amount</td></tr></table></td></tr>
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Appendix A

UTM Niche Area

NICHE AREA	RESEARCH ALLIANCE
1. Advancement in Materials Engineering	Frontier Material
2. Advanced Filtration Technology	Frontier Material
3. Smart Manufacturing & Automation	Frontier Material
4. Bioproduct & Biomanufacturing	Health & Wellness
5. Bioenergy & Environmental	Health & Wellness
6. Medical devices & Health Informatics	Health & Wellness
7. Sustainable & Resilient Infrastructure	Innovative Engineering
8. Networking & Telecommunications	Innovative Engineering
9. Green Vehicle	Innovative Engineering
10. Water & Wastewater	Resource Sustainability
11. Energy	Resource Sustainability
12. Resource Recovery	Resource Sustainability
13. Sustainable Practices	Resource Sustainability
14. Ecosystem Services	Resource Sustainability
15. Climate Change	Resource Sustainability
16. Education	Smart Digital Community
17. Social Economic & Wellbeing	Smart Digital Community