



## University of Karachi

PROFORMA FOR THE SUBMISSION OF RESEARCH PROPOSAL TO  
FACULTY OF SCIENCE AND FACULTY OF ENGINEERING  
(details of application procedures on pages 4 and 5)

DFS/Dean's Research Grant/2016-  
March 9, 2016

	<i>Name</i>	<i>Date of Admission (if currently enrolled in a degree program)</i>
<b>Principal Investigator:</b>	_____	- -200
<b>Co-Investigator (1):</b>	_____	- -200
<b>Co-Investigator (2):</b>	_____	- -200
<b>Title of the Project:</b>	_____	
<b>Main Field of Study:</b>	_____ <b>(Basic/Applied)</b>	
<b>Funds Requested:</b>	_____	
<b>Signatures of Investigator(s):</b>	(a) _____ (b) _____	
	(c) _____	
<b>Endorsement by the Chair/ Director/Incharge (with stamp):</b>	_____	

**Please Attach: Complete List of Publications**

Indicate DFS grants awarded 2010 onward (papers published against each grant), national and international projects won, MPhil/MS theses/PhD dissertations supervised 2010 onward/ currently supervising; list of publications year wise, with separate listings for journal (indicating ranking: ISI Impact Factor, ISI Indexed, HEC Recognized, University of Karachi Recognized) and solo conference presentations

PROJECTS may be prepared according to the format given on the following pages.

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**OFFICE OF DEAN, FACULTY OF SCIENCE, UNIVERSITY OF KARACHI**

Received, with thanks, from Professor/Dr./Mr./Ms. \_\_\_\_\_ of  
Department/Institute/Center \_\_\_\_\_, Research Proposal \_\_\_\_\_ pages,  
alongwith \_\_\_\_\_ (write number) enclosures.

Dated    -03-2016

\_\_\_\_\_  
Authorized Signatures with Stamp

**Classification: Academic Research/Unrestricted Distribution**

<b>Title:</b>	Title should be concise and reflect truly the nature of work to be conducted.
<b>Principal Investigator and Co-Investigator(s):</b>	Give name of Principal Investigator (PI), who is responsible for submitting technical and fiscal reports. Name(s) of Co-Investigator(s), if included, must be justifiable from the nature of project.
<b>Department/Institute/Center:</b>	Name(s) of Department/Institute/Center, with which PI and Co-Investigator(s) are associated.
<b>Telephone Numbers:</b>	Official telephone number(s) of PI and Co-Investigator(s)
<b>e-mail(s):</b>	e-mail(s) of PI and Co-Investigator(s)
<b>Homepage(s):</b>	Homepage(s) of PI and Co-Investigator(s), if available
<b>Introduction</b>	<b>a) Background of the Problem</b> This should include a definition of the terms used in the title, and a brief description of what the problem is about <b>b) Significance of the Problem</b> Here PI should indicate importance of the problem and how it effects our community <b>c) Need for Solution:</b> Here PI should indicate need for finding a solution. What will be achieved from working out a solution to the proposed problem?
<b>Statement of the Problem</b>	Here PI should give a formal statement of the problem. The formal statement may be accompanied by diagram, if needed
<b>Proposed Solution</b>	It should include a precise description of the technical results expected to be achieved.
<b>Study Design</b>	If the proposal pertains to a study, one must mention "Target Population" and "Sampling Element". There should be well-defined inclusion criteria. Sample size should be computed based on the confidence limits chosen.
<b>Methodology</b>	This should include the techniques for carrying out the proposed work. A theoretical project should indicate type of model to developed and techniques of validation. An experimental project should include proper experiment design, conduct strategy and techniques of analysis of results.
<b>Resources</b>	<b>a) Necessary Facilities Required</b> State, clearly, what is required with proper justification <i>i)</i> <i>ii)</i> <i>iii)</i> <b>b) Facilities Available</b> Facilities available in your laboratory. Also, mention, which facilities can be made available by pooling resources with colleagues <i>i)</i> <i>ii)</i> <i>iii)</i> <i>iv)</i>

**Schedules**

**a) Project Duration**

With tentative Start Date

**b) Submission of Reports**

Final Report (upon completion of project)

Audited Statement of Accounts (upon completion of project)

**Estimated Budget**

<i>Description</i>	<i>Amount (in Rupees)</i>
Smaller-Budget Equipment*	
Chemicals/Reagents/Expendable Items	
Stationery	
Conference Registration	
Local Travel	

*Total*

(Rupees \_\_\_\_\_ )

\* Larger-Budget equipment may be purchased by pooling grants of 2-3 investigators.

**Benefits/Usefulness**

What will be the benefits and the usefulness of this project to PI, Co-Investigator(s), the parent institution and the community?

i)

ii)

iii)

**Impact of the Proposed Product Developed on Environment**

**References**

Up-to-date references in the standard format (a few must be of papers published within the last 5 years). The contribution made, if any, by PI should, also, be included.

Details of preparing research proposals are available at:

<http://www.ngds-ku.org/Industrial/proposals.htm>

Research proposals, which won previous Dean's Research Grants, may be downloaded from:

<http://www.ngds-ku.org/DFS/DFS2005.pdf>

<http://www.ngds-ku.org/DFS/DFS2007.pdf>

Word and PDF formats of this template are placed at the following links:

<http://www.ngds-ku.org/DFS/Template2016.doc>

<http://www.ngds-ku.org/DFS/Template2016.pdf>

DFS/Dean's Research Grant/2016-  
March 9, 2016

**SUBMISSION OF RESEARCH GRANT PROPOSAL-2016**

Research grant proposals are invited from regular faculty members of the Faculty of Science on the prescribed proforma available in photocopy shops in Zoology and Physics as well as placed at:

<http://www.ngds-ku.org/DFS/Template2016.doc>

<http://www.ngds-ku.org/DFS/Template2016.pdf>

1. Regular faculty members (confirmed) of the departments, institutes and centers of Faculties of Science and Engineering, funded by University of Karachi, where undergraduate teaching is being conducted, are eligible to apply.
2. The faculty members, who are availing foreign-service leave, are not eligible to apply.
3. Faculty members, who are enrolled in MPhil (synopsis approved) or PhD from University of Karachi, can submit a proposal related to their proposed research accompanied by a certificate from research supervisor.
4. Faculty members, who are retiring before March 25, 2017, and those, who have not submitted the audited and the technical reports for the funds provided to them earlier, are not eligible to apply (please attach photocopy of receiving of the audited and the technical reports with your proposal).
5. The maximum amount requested should not exceed Rs 200 000/=
6. The award of grant shall be according to the merit criteria in 2 categories (lecturer and assistant professor; associate professor and professor), subject to the availability of funds.
7. Please attach list of publications (separate entries for journal papers and solo conference presentations). Journal papers should, clearly, indicate category (ISI Impact factor, ISI Indexed, HEC Approved, University-of-Karachi Approved). A track record of 1 paper per year is required from faculty, who are not enrolled in MPhil/PhD for the last five years or the total length of service, whichever is lesser.
8. Last date for the submission of proposals is **March 25, 2016**.

DFS/Dean's Research Grant/2016-  
March 9, 2016

**SUBMISSION OF RESEARCH GRANT PROPOSAL FOR MPhil/PhD STUDENTS-2016**

Applications are invited from regular faculty members of the Faculty of Science on the following proforma for MPhil/PhD students.

1. Regular faculty members (confirmed) of the departments, institutes and centers of Faculties of Science and Engineering, funded by University of Karachi, where undergraduate teaching is being conducted, are eligible to apply.
2. Faculty members who are retiring before March 25, 2017 and those who have not submitted the audited and the progress reports for the funds provided to them earlier are not eligible to apply (please attach photocopy of receiving of the audited and the progress reports with the completed list).
3. Those faculty members, who have applied for separate project grant (last page), are not eligible to receive MPhil/PhD student grant.
4. HEC scholars, who are MPhil/PhD candidates, are not eligible to receive student grant.
5. The award of grant shall be for the students (maximum 4) enrolled after March 25, 2013, subject to the availability of funds.
6. Last date for the submission of proposals is **March 25, 2015**.

<b>S. No</b>	<b>Name of student</b>	<b>Enrolled for MPhil/PhD</b>	<b>Date of admission</b>

Kindly, provide copies of letters of admission from BASR for each of the above-listed students.

**Professor Dr. Syed Arif Kamal**

Gold Medallist; PhD; MA (Johns Hopkins, USA); MS (Indiana, USA)  
Senior-Most Professor of University  
Dean, Faculty of Science  
and Faculty of Engineering

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