



# کراچی یونیورسٹی University of Karachi



## THE NGDS PILOT PROJECT

### The Early Talent Research Participation Program

Program Convener

PROFESSOR DR. SYED ARIF KAMAL

#### NOMINATIONS 2014

<i>Aims and Objectives</i>	<ol style="list-style-type: none"><li>To identify and to groom talent at the school level</li><li>To motivate young students to take up study of science</li><li>To inculcate scientific thinking in young brains</li><li>To train to seek innovative solutions to problems</li><li>To help students determine their professional direction</li><li>To counsel the students in choice of their undergraduate program</li></ol>
<i>Program Duration</i>	Tuesday, July 1, 2014 to Friday, August 29, 2014
<i>Program Contents</i>	Basic training in scientific methodology through informal discussion of material placed on <a href="http://ngds.uok.edu.pk/kamal">http://ngds.uok.edu.pk/kamal</a> - Articles on Science and Modeling with a combination of experiment set up, data collection and data analysis
<i>Participants' Age and Maturity</i>	ETRPP (a subproject of the NGDS Pilot Project) is seeking students, who have Just written their O-Levels (and awaiting results), with the following qualities: <ol style="list-style-type: none"><li>Integrity/Desire to seek the truth</li><li>Punctuality (arriving on time, not missing any sessions, completing assignments on time)</li><li>Responsibility (checking of assignments for accuracy and for thoroughness, notifying in advance, if unable to attend a session or unable to meet a deadline)</li><li>A keen interest in learning new techniques and new concepts</li><li>The willingness and the ability to work as part of a team</li></ol>
<i>Number of Participants</i>	A minimum of TWO and a maximum of SIX students (3 boys, 3 girls) can be accommodated from any single institution.
<i>Time Commitment</i>	One contact hour and three-hour preparation per week for the whole session. Each group is entitled to participate in ETRPP for one session, only. In order to achieve maximum from the program, the students are strongly recommended <b>NOT</b> to enroll in any other program during the participation period.
<i>Benefits/ Usefulness</i>	<ol style="list-style-type: none"><li>Could be used to satisfy community service requirements of IB or HSC (Cambridge University) Programs</li><li>Selected students (who perform extraordinarily) are provided with letters of recommendation, for admission/financial assistance in undergraduate programs</li><li>All the students, who complete the program, satisfactorily (that means, <b>more than 80% attendance</b> in sessions, <b>not more than 2</b> late arrivals, <b>prior written request</b> from parent and <b>expresses approval</b> from Coördinator for any absence from a session, preparation and timely submission of <b>more than 80% of assignments</b>), get a certificate of completion</li><li>During their formal participation in the training session and afterwards, the students are eligible to attend ETRPP Popular Lecture Series</li><li>May get preference, if desire to work on a research project of University of Karachi</li></ol>



## Nominations 2014 (Procedures)

Nominations are solicited for year 2013. DEADLINE is **Monday, March 24, 2014**. Detailed procedures for submitting nominations: [http://www.ngds-ku.org/ngds\\_folder/Nom2013.pdf](http://www.ngds-ku.org/ngds_folder/Nom2013.pdf)

Individual students may NOT apply for this program. Institutions willing to participate may send a letter of request on institutional letterhead to:

**Prof. Dr. Syed Arif Kamal**  
Program Convener, ETRPP  
Professor and Chairman, Department of Mathematics  
University of Karachi, Karachi 75270.

The institution should submit the following information:

- a) Name, paper mail address (mailing address), telephone and fax numbers of the institution
- b) Official website and e-mail address of the institution, if available
- c) Date of establishment of the institution
- d) Name of the principal/the head teacher
- e) Name of head of the science department
- f) Affiliation of the institution (Karachi Board, Cambridge University, IB etc.)

Each applicant must submit the following through principal of institution:

- a) One-page vita
- b) Five (5) passport-size photographs  
*Name of the student should be written in **BLOCK LETTERS** on the back of each photograph.  
One of the photographs submitted must be affixed to vita on the upper-right-hand corner.*
- c) One photocopy of B-Form
- d) One photocopy of CNIC of father
- e) Life-history essay (see next page)
- f) One page Statement of Purpose, indicating 5 reasons to achieve from the program. The Statement should have 3 paragraphs. The first one indicating what you know, the second one outlining what you want to do and the last one relating the skills in the first to the objective in the second.

The vitae should include, but are not limited to:

- |  |   |
|--|---|
| a) Name of the student                 | g) Interests                                    |
| b) Father's name                       | h) Hobbies                                      |
| c) Date of birth                       | i) Attendance in activities of a similar nature |
| d) e-mail address                      | j) Details of projects done, previously         |
| e) Paper-mail (correspondence) address | k) Participation in projects, at present        |
| f) Telephone number                    | l) Membership of societies/organizations        |

All information should be provided in the order given above.

## Schedules

**Receipt of Nominations: Monday, March 24, 2014**

**Final List: Monday, March 31, 2014 at 0900h (9:00 a. m.)** on the school-notice board. Gate Passes to enter University of Karachi campus shall be available during the last week of June 2014 from the Principal's Office

**Girls' Group:** Meets every Monday during 1007h-1106h (11:07 a. m. – 11:06 a. m.) in Room 006

**Boys' Group:** Meets every Monday during 1117h-1216h (11:17 a. m. – 12:16 p. m.) in Room 006

**Dress Code:** Students must be in their respective school uniforms during all ETRPP sessions.

**Venue:** Department of Mathematics, University of Karachi

**Telephone:** 021 9926 1300-6 ext. 2293 (secretary), 2380 (direct)

**Directions:** <http://www.ngds-ku.org/kamal/contact.htm#Directions> (map available)



## Life-History Essay

Write a 4-5 pages life-history essay about yourself.

The PAGE LIMIT (for life-history essay) and the WORD LIMIT (for profile, see below) must be followed, to letter.

The Hierarchy should be, somewhat, like the following:

- a) Your Past
  - Where do you come from?
    - Ancestors
    - Education and occupation of father
    - Education and occupation of mother
    - Siblings
    - Your number among them
    - What are they doing?
  - Your education
  - Your experience
- b) Your Present \*
  - Your strengths
    - Underline your principal strength
  - Your weaknesses
    - Underline your principal weakness
- c) Your future
  - Your life 20 years from now
  - Your goal in life
  - Strategy to:
    - Achieve your goal
    - Overcome your weaknesses
  - Alternative #
  - Short-term goals and targets
- d) Your philosophy of life
  - Purpose of life
  - Your view of life @
- e) The most memorable event in your life
  - The incident, you can never forget the rest of your life
- f) Your hero
  - Your source of inspiration (the personality, you admire most in life)
- g) The book, which influenced you most
- h) Your dream place
  - The country you would like to visit often, other than your country of birth/permanent residence
- i) Turning moments in your life
  - How did you cope with difficult situations, in the past, with personal examples, if possible?
  - Strategy to cope with awkward situations, in the future
- j) The golden and the darkest periods in your life
  - How did you handle yourself during these periods?
  - Did your perspective of life changed during these periods?
  - Did your strengths and weaknesses come to open during these periods?
- k) Your profile
  - 150-200 words (you may wish to see my profile at <http://ngds-ku.org/kamal#Profile>)

\* How do you feel about your present institution?

# If unable to achieve your principal goal

@ The relationship of man with his immediate surroundings and the universe

All the information submitted in this essay shall be treated with STRICT CONFIDENTIALITY and not disclosed to a third party without your express consent, except under the situations indicated at:

<http://www.ngds-ku.org/M509-10/Confidentiality.htm>

Seal the essay in an envelope with your name written on the envelope, your signatures over the folds of envelope.

Web address of this document: [http://www.ngds-ku.org/ngds\\_folder/Nom2014.pdf](http://www.ngds-ku.org/ngds_folder/Nom2014.pdf)