

NITK New Website Revised Requirements

Budgetary Proposals are invited

Please respond on or before Oct 9, 2019

1 Objective

- Kindly take a look at <https://www.nitk.ac.in> and assess all associated sites from the point of view of a redesign. Please consider the
 - Hosting cost
 - Maintenance Cost and update procedure
 - Fixed cost, variable cost (rate for site license) and recurring cost for continued maintenance.
 - Data migration cost from existing sites to new sites.

Considering these, please prepare a techno-budgetary proposal for us.

- A presentation will have to be given to a committee.

2 The following are the revised requirements

1. A complete content management system has to be developed from scratch.
2. The platform must be Laravel and Ruby On Rails. *Laravel is a PHP framework built by Taylor Otwell and community. It uses Model View Controller architecture pattern. It provides a lot of features like a complete Authentication System, Database Migrations, A Powerful Object Relational Mapping, Pagination, and so on. It is dependent on PHP and composer installed. Composer is a dependency manager for PHP. Ruby on Rails, sometimes known as "RoR" or just "Rails," is an open source framework for Web development in Ruby.*
3. The website created must be fully responsive — it must auto adjust with an appropriate user interface on devices of all formfactors – mobile phones, tablet computers, laptops, desktops etc.
4. IRIS integration must be possible using the IRIS API.
5. A single RDBMS is to be used for an integrated back end. There can be multiple Databases and multiple tables per databases if necessary.
6. The site has to be an integrated portal for NITK website.
7. The site can have multiple microsites for constituent departments and centres.
8. Each microsite must be manageable independently.
9. The sites must use similar colour palettes and similar (or same, if possible) templates.

10. It must be possible to define workflows within each site.
11. The constituent microsites will have the same workflow which will reflect the editorial process defined by NITK.
12. Functional requirements of the UI/UX (User Interface / user Experience) will be decided by NITK. The final UI must be arrived at through an iterative discussion, starting with a wireframe model.
13. The project shall include data migration from the existing websites.
14. The sites shall follow the archival policy specified by NITK.
15. The site shall be hosted within NITK Network. Appropriate hardware cluster will be procured for the purpose by NITK, for which suggestions will be given by the selected firm.
16. Sufficient training for data back-up, restoration and site migration shall be given to the back-end support personnel of NITK.
17. The selected firm shall enter into an SLA with NITK on matters such as maintenance of the code base, security patches from time to time, site migration/recovery assistance in the event of any server crashes, per page or per hour charges for any special pages or artistic works to be carried out and changes if any needed in the templates of the production site etc.
18. While designing the site, the firm shall not use any copy righted material unless they obtain the license to use beforehand.
19. Provision shall be made for the institute to create and/or modify the content wherever necessary.
20. All images used in pages / sliders shall be web-optimised.
21. A web optimised image gallery shall be a part of the integrated site.
22. NITK shall identify a person exclusively for the website updation who shall be follow the instructions of the editorial board.