Rajiv Gandhi University of Knowledge Technologies

(Telangana Government Act 8 of 2016)

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Department of Computer Science & Engineering

Guidelines for Writing B. Tech. Project Report

**The highlighted(yellow) contents are to updated

1. **Paper Size:** A4 with margins of 1.5" (Left) and 1" (Top-Bottom and Right).

2. **Font:** Times New Roman, 12 size (except Project Report title; it should have a font size of 16).

3. **Line Spacing:** 1.5

4. **Page Limit:** Maximum 80 pages (including list of references and appendices)

5. **The Project Report should consist of the following:**
   (1) Top Page (see **Annex-1** for sample)
   (2) Cover Page (see **Annex-2** for sample)
   (3) One page for the **Certificate** (see **Annex-3** for sample)
   (4) Declaration Page (see **Annex-4** for sample)
   (5) **Acknowledgements** (Students' Name and ID at the end)
   (6) **Abstract** (Maximum one page (1.5 line spacing) along with 5-6 keywords)
   (7) **Table of Contents**
   (8) **List of Figures** (Figure No., Name of the figure, page no)
   (9) **List of Tables** (Table No., Name of the table, page no)
   (10)   Chapter 1: **Introduction** (it should contain background of the study, together with the overall objective of the study in the last paragraph of 'Introduction'. Specific objectives of the study should be listed under a separate heading "Objectives").
   (11)   Chapter 2: **Review of Literature** (May change the chapter name for application development project)
   (12) Chapter 3: **Intermediate Chapters** (Add chapters as necessary)
   (13) Chapter 5: **Results and Discussion**
   (14) Chapter 6: **Conclusions and Future Works**
   (15) **References**
   (16) **Appendices** (optional)

6. **Section Heading:** It should be in 'Title Case' and bold. Number all the sections and sub-sections appearing in a chapter. Do provide references (i.e., citation) to support facts and figures wherever applicable. Please cite the references inside the text as: Singh (1991) --- for single author, Jain and Pandey (2004) --- for two authors, or Sinha et al. (2006) ----- for more than two authors. If two or more than two references are to be cited, they should be separated by semi colon as follows: (Kumar et al., 1998; Singh and Sen, 2002; Sharma and Chowdary, 2005).

7. **Sub-section Heading:** It should be in 'Sentence Case' and bold. Divide main sections of each chapter into different sub-sections, wherever applicable and number each of them.

   *** Sentence case is when you only capitalise the first letter of the first word in a heading – like you would in a sentence. With **Title Case** you capitalise the first letter of each word.

8. All the sections and sub-sections should be **left aligned**, while the texts under the sections/sub-sections should be '**justified**' (i.e., 'left' as well as 'right' aligned). Provide 'Before 6' or 'After 6' space between the first paragraph and section/subsection heading --- don't use 'Enter'. However, provide one 'Enter' between two paragraphs and **don't use 'Tab'** before starting a paragraph.

9. **Equations:** All the equations should be numbered according to the chapters in which they appear (e.g., 3.1, 3.2, 3.3, etc. if the equations appear in Chapter 3 and 4.1, 4.2, 4.3, etc. if they appear in Chapter 4) and the equation number should be right aligned (first use 'Tabs' and then 'Space Bar' to correctly align the equation numbers). All the equations should be written using 'Equation Editor' or 'MathType'. One example of writing equations, assigning equation number and defining variables/parameters is given below (assuming that the equation appears in Chapter 3):

$$sim(e_1, e_2) = \frac{|S \cap S'| + |N^Y(c) \cap N^Y(r)| + |N^Z(b) \cap N^Z(q)|}{|S \cap S'| + |N^Y(c) \cup N^Y(r)| + |N^Z(b) \cup N^Z(q)|} \qquad (3.1)$$

Where, S = $N^X(b) \cup N^X(c)$ and S' = $N^X(q) \cap N^X(r)$. Jaccard Similarity value can range from 0 to 1.

Inside the text, the equations should be cited as: "From Eqn. (3.1), it is clear that -----."

10. **Tables:** They should contain both horizontal and vertical lines like Standard MS-Word tables, and must have appropriate titles in 'Sentence Case'. Don't put period (.) at the end of table title. All the tables must be cited inside the text and should be numbered according to the chapters in which they appear (e.g., Table 3.1 if it appears in Chapter 3; Table 4.1 if it appears in Chapter 4; and so on). An example for preparing tables is given in **Annex-4**.

11. **Figures:** They should be numbered according to the chapters in which they appear (e.g., Fig. 3.1 if it appears in Chapter 3; Fig. 4.1 if it appears in Chapter 4; and so on) and have appropriate captions in 'Sentence Case'. At the end of each figure caption, please put period (.). All the

figures must be cited inside the text. An example for writing figure numbers and figure captions is given in **Annex-5**.

12. **Tables and Figures** should be of good quality. <u>If some tables and figures are taken as such or modified from published sources; accordingly their sources must be cited at the end of the table title and at the end of figure caption</u>. Direct 'cut and paste' of the Tables and Figures from published sources should be avoided.

13. **Page Numbering:**

- Page numbers for the prefacing materials of the Project Report (i.e., before Chapter 1) shall be in small Roman numerals (e.g., i, ii, iii, etc.) and should be centered at the bottom of the pages.

- Page numbers for the body of the Project Report should be in Arabic numerals (e.g., -1-, -2-, -3-, etc.) and should be centered at the bottom of the pages. The pagination should start with the first page of Chapter 1 and should continue throughout the text (including tables, figures, and appendices).

14. **References:** All the references cited inside the text must be listed according to the format given below and arranged in an alphabetical order. <u>Make sure that all the listed references are cited correctly inside the text</u>.

16. **Format for Listing References**

(1) Journal Papers (Always write the name of journals in full)**:**

[1] Dozier, J. (1992). Opportunities to improve hydrologic data. Reviews of Geophysics, 30(4): 315-331.

[2] Alley, W.M. and Leake, S.A. (2004). The journey from safe yield to sustainability. Ground Water, 42(1): 12-16.

[3] Evans, R.G. and Sadler, E.J. (2008). Methods and technologies to improve efficiency of water use. Water Resources Research, Vol. 44, W00E04, doi:10.1029/2007WR006200.

[4] Adams, T.M., Tang, A.Y.S. and Wiegand, N. (1993). Spatial data models for managing subsurface data. Journal of Computation in Civil Engineering, ASCE, 7(3): 260-277.

(2) Conference/Symposium Papers

[1] Ayibotele, N.B. (1992). The world's water: Assessing the resource. Proceedings of the International Conference on Water and the Environment: Development Issues for 21st Century, 26-31 January 1992, Dublin, Ireland, pp. 1.1-1.25.

[2] Schultz, G.A. (1993). Application of GIS and Remote Sensing in Hydrology. In: K. Kovar and H.P. Nachtnebel (editors), Application of Geographic Information Systems in Hydrology and Water Resources Management, IAHS Publication No. 211, IAHS Press, Wallingford, pp. 127-140.

[3] Perumal, M. and Sahoo, B. (2006). Evaluation of criteria for the choice of flood routing methods. Proceedings of the 15th Congress of APD-IAHR and the International Symposium on Maritime

Hydraulics (ISMH), 7-10 August 2006, Department of Ocean Engineering, Indian Institute of Technology Madras, Chennai, Allied Publishers Pvt. Ltd., Chennai, India, Vol. I, pp. 559-565.

(3) Books (Authored or Edited)

[1] Anderson, M.P. and Woessner, W.W. (1992). Applied Groundwater Modeling. Academic Press, San Diego, 381 pp.

[2] G.A. and Engman, E.T. (editors) (2000). Remote Sensing in Hydrology and Water Management. Springer, Berlin, pp. 150-320.

(4) Reports/Bulletins/Project Report

[1] IMD (2002). Damage Potential of Tropical Cyclones. India Meteorological Department (IMD), Government of India, New Delhi, pp. 10-30.

[2] MoEF (2005). State of Forest Report. Forest Survey of India, Ministry of Environment & Forests (MoEF), Government of India, Dehradun, Uttarakhand, 152 pp.

[3] Sophocleous, M. (editor) (1998). Perspectives on Sustainable Development of Water Resources in Kansas. Kansas Geological Survey Bulletin 239, Kansas Geological Survey, Kansas, USA.

[4] Hayami, S. (1951). On the Propagation of Flood Waves. Bulletin of Disaster Prevention Research Institute, Kyoto University, Japan, Vol. 1, pp. 1-16.

[5] Trewin, B.C. (2001). Extreme Temperature Events in Australia. Ph.D. Project Report. University of Melbourne, Melbourne, Australia.

(5) Chapters in Edited Books

[1] Haan, C.T. and Storm, D.E. (1996). Nonpoint source pollution modeling with GIS. In: V.P. Singh and M. Fiorentino (editors), Geographical Information Systems in Hydrology, Kluwer Academic Publishers, Dordrecht, The Netherlands, pp. 323-338.

[2] Seth, S.M. (1998). Flood hydrology and flood management in India. In: V.S. Kale (editor), Flood Studies in India, Memoir 41, Geological Society of India, Bangalore, pp. 155-172.

(6) Internet Articles

[1] IPCC (2001). Third Assessment Report: Climate Change 2001. Intergovernmental Panel on Climate Change (IPCC), Geneva, Switzerland, http://www.ipcc.ch (accessed in March 2005).

[2] Musa, K.A., Akhir, J.M. and Abdullah, I. (2000). Groundwater prediction potential zone in Langat Basin using the integration of remote sensing and GIS. www.GISdevelopment.net (accessed on July 24, 2003).

Report Specifications for Binding:

1. Project Report's Cover Type: Hard-bound
2. Color of Project Report Cover: Black only with golden alphabets (as per annexure 1)
3. Number of Copies: 3 for HOD/Project Coordinator ,Department Library and Supervisor,
4. You may also plan one copy for per student (Individual or Student's copy)
5. Paper Size (orientation): A4 (portrait) [Preferably Bond Paper]
6. Margins: 1" top / bottom / right and 1.5" left
7. Font Type: Times New Roman
8. Font Size: 16 bold for chapter names, 14 bold for headings and 12 for normal

Details of CD:

CD of the project work is required to be pasted on the back cover of the project report in clear packet, which should include the following folders and contents:

1. **Presentation** (should include a PPT about project in not more than 40-50 slides)
2. **Documentation** (should include a word file of the project report)
3. **SourceCode** (full source code of the project with libraries used)
4. **Program** (final running copy of the project executable)
5. **Support** (any third party tools used or runtime environment setups that are required to run the project)
6. **Help** (user manual on how to run the project)

NOTE:

CD must be checked for any harmful viruses before submission. SourceCode and Program folders can be combined into single folder **Project** if it's a web project etc.

If required you must be ready to show your complete Execution Process to the Review Team Members

If you are working under any External Organization, you may include the Certificate provided by the company before **Annexure-3**

Detailed description of document is explained the below

Link-How to Prepare Your Project Documentation Report Effectively:
 https://www.youtube.com/watch?v=NxszxgUWpKI

Annexure-1
Sample Top Page

PROJECT TITLE [BOLD]

(The title is in Times New Roman Font with 18-point size, Bold, 1.5 Line spacing)

A PROJECT REPORT
< FontSize 14>

Submitted by
< Font Size 14 >< Italic>

Student's Name & ID

(Student's name in Times New Roman Font, 14-point size in Bold, Centered)

Of

Bachelor of Technology

< font Size 16>

Under the guidance of

Supervisor's Name

Designation

< font size 14>

DEPARTMENT OF COMPUTER SCIENCEAND ENGINEERING
RAJIV GANDHI UNIVERSITY OF KNOWLEDGE TECHNOLOGIES
BASAR, NIRMAL (DIST.),
TELANGANA – 504107

(Times New Roman, 14-point size, Bold, 1.2 Line spacing, Centered)

PROJECT TITLE[BOLD]

Project Report submitted to
Rajiv Gandhi University of Knowledge Technologies, Basar
for the partial fulfillment of the requirements
for the award of the degree of

Bachelor of Technology
in
Computer Science and Engineering

by

Student Name (Id.No)

Under the guidance of

GUIDE NAME

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
RAJIV GANDHI UNIVERSITY OF KNOWLEDGE TECHNOLOGIES,
BASAR
JULY-2021

Annexure-3

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
RAJIV GANDHI UNIVERSITY OF KNOWLEDGE TECHNOLOGIES, BASAR

CERTIFICATE

This is to certify that the Project Report entitled **'PROJECT TITLE'** submitted by **Student Name, ID – Student Id**, Department of Computer Science and Engineering, Rajiv Gandhi University Of Knowledge Technologies, Basar; for partial fulfillment of the requirements for the degree of Bachelor of Technology in Computer Science and Engineering; is a bonafide record of the work and investigations carried out by him/her/them under my supervision and guidance.

PROJECT SUPERVISOR	PROJECT COORDINATOR	HEAD OF DEPARTMENT
Name	**Mr.K.RAVIKANTH**	**Ms.G.SRUJANA**
Assistant Professor	**Assistant Professor**	**Assistant Professor**

EXTERNAL EXAMINAR

Annexure - 4

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
RAJIV GANDHI UNIVERSITY OF KNOWLEDGE TECHNOLOGIES, BASAR

DECLARATION

I/We hereby declare that the work which is being presented in this project entitled, **" PROEJCT TITLE "** submitted to **RAJIV GANDHI UNIVERSITY OF KNOWLEDGE TECHNOLOGIES, BASAR** in the partial fulfillment of the requirements for the award of the degree of **BECHLOR OF TECHNOLOGY** in **COMPUTER SCIENCE AND ENGINEERING,** is an authentic record of my/our own work carried out under the supervision of **"Name of the Supervisor", Assistant Professor in Department of Computer Science And Engineering, RGUKT, Basar.**

The matter embodied in this project report has not been submitted by me/us for the award of any other degree.

Place:

Date: **Name of the Student (ID.NO)**

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Annex-5

Table 5.1. Subsurface formation parameters at different sites of Gopali area

Site	Layer Resistivity (ohm-m)					Layer Thickness (m)				RMSE (ohm-m)
	ρ_1	ρ_2	ρ_3	ρ_4	ρ_5	H_1	H_2	H_3	H_4	
G-1	2196.15	385.21	150.07	46.25	-	0.78	3.24	5.34	∞	19.3628
G-2	1375.13	468.79	62.5	29.22	-	1.35	2.95	17.5	∞	35.3181
G-3	1571.46	175.14	60.59	-	-	2.22	2.01	∞	-	46.9599
G-4	1455.53	325.06	25.12	69.86	-	1.25	2.88	24.43	∞	33.7324
G-5	484.31	141.93	19.6	59.78	-	2.53	3.66	17.4	∞	9.5598
G-6	1067.58	221.499	28.33	135.51	38.47	1.02	3.41	6.17	11.38	10.8859
G-7	85.01	178.71	52.77	80.17	-	1.03	5.04	46.02	∞	7.5898

Note: ∞ indicates the last layer of infinite thickness; - indicates no further layer.
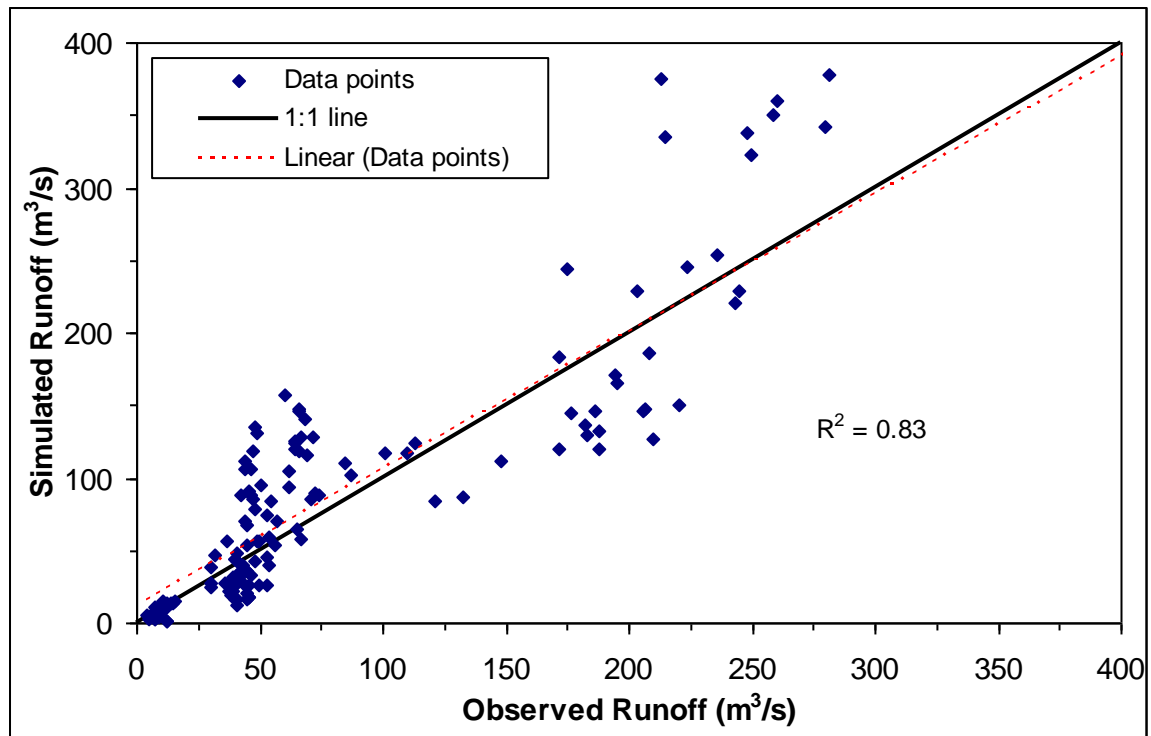
Annex-5

Fig. 5.1. Scatter plot of observed versus HEC-HMS simulated runoff for the year 2001.