



**11. Research Objectives and Expected Contributions:**

*[Please list the objectives(s) and the possible outcomes using short sentences not more than 3(three).]*

**Objectives:**

The proposed work should follow the objectives in bullet or point manner which should meet the objective template using 3-5 specific objectives (maximum 5):

- a) Better to start each objective with “To”.
- b) What is to be achieved as an outcome of the research has to be visualized while mentioning the objectives of the research.
- c) The objectives should align with the Title and the Background study.

**Expected Contributions:**

Expected Contributions mentions the application of the proposed work if it is successfully completed:

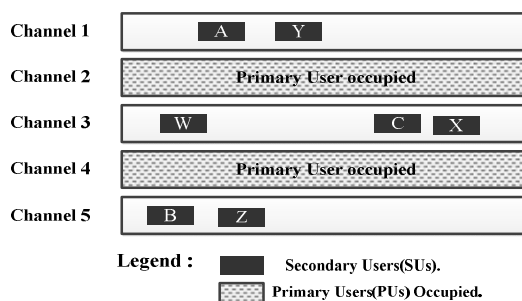
- a) If the students follow the template, it will be easy for the ACPG/RAC to evaluate their work.
- b) There will be no problem for the CASR to clearly identify the goal of the research.
- c) You can use “It is expected that after completion of the research .....” before giving the possible outcomes.

**12. Methodology and Research Plan:**

*[Describe data collection methods, tools, models, and include a timeline or Gantt chart and Procurement Plan. Outline the approach and the sequence of activities in not more than 400 words to describe how the work will be carried out.]*

When writing up the research methodology, should be specific about: the methods that you will use to gather your information; the theories and techniques you will use to analyze the information; and the relevance of these approaches to your research problem. You should specify the particular activities that you will undertake and show how they will contribute to the investigation of your research problem. Finally, anticipate any potential barriers that you will face in carrying out your research design. You may use one flow diagram to clearly explain your methodology.

Insert/place figure after/around they are cited in the text. Use the following template for adding Figure and Use the abbreviation “Fig. 1,” even at the beginning of a sentence. For a Figure place it as a ‘center alignment’ and use 6 Point for before and after the Figure and also use gap of 1.3 Lines.



**Fig. 1:** Example of figure caption using center alignment.

Position Tables as per requirement in the proposal. Large tables may span across vertically or horizontally. Table heads should appear above the tables. Insert tables after/around they are cited in the text. Use the addressing the table as Table 1 within a text.

TABLE I: TABLE STYLES

Table Head	Table Column Head		
	Table column subhead	Subhead	Subhead
copy	More table copy		

**13. References:**

*[The students are encouraged to cite latest references in the proposal. All the references should be cited inside the texts and use maximum 15 references. While giving the references you must mention clearly the author, title of the paper, name of the journal/proceeding. Vol. no., Year of publication (make it bold and give it at last) etc. (no need to give doi number) in the standard style given below:]*

- [1] R. S. Muller and T. I. Kamins, Devices Electronics for Integrated Circuits, John Wiley, New York, **1986**. (for book)
- [2] J. C. Kieffer, W. Szpankowski and E. H. Yang, “Problems on Sequences: Information Theory and Computer Science Interface,”IEEE Transactions on Information Theory, vol. 50, no. 7, pp. 1385-1392, July **2004**. (for journal)
- [3] P. Anandhakumar, “Research challenges in multimedia & cloud computing,” Sixth International Conference on Advanced Computing (ICoAC), pp. 1-6, Chennai, **2014**. (for conference)
- [4] R. E. Sorace, V. S. Reinhardt, and S. A. Vaughn, “High-speed digital-to-RF converter,” U.S. Patent 5 668 842, Sept. 16, **1997**. (for patent)
- [5] M. Shell. (2002) IEEEtran homepage on CTAN. [Online]. Available: <http://www.ctan.org/tex-archive/macros/latex/contrib/supported/IEEEtran/> [Last visited on: xx Mar., 20xx] (for web pages)
- [6] A. Quraisi, “Performance of TCP congestion control with rate feedback: TCP/ABR and rate adaptive TCP/IP,” M. Sc. Engg. thesis, Dhaka University of Engineering & Technology (DUET), Gazipur, Bangladesh, Jan. **2010**. (for thesis)
- [7] J. Padhye, V. Firoiu, and D. Towsley, “A stochastic model of TCP Reno congestion avoidance and control,” Univ. of Massachusetts, Amherst, MA, CMPSCI Tech. Rep. 99-02, **1999**. (for technical report)
- [8] Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specification, IEEE Std. 802.11, **1997**. (for standards)

**14. List of Courses having Course No., Course Title, Credit, Grade, Grade Point and CGPA**

*(To be verified and signed by the Course Coordinator and Summary of Grades from PGR should be provided)*

Course No.	Course Title	Credit	Grade	Grade Point	CGPA
CSE6201	Distributed Database System	<b>3.0</b>	B plus	3.00	<b>3.17</b>
CSE 6301	Wireless Sensor Networks	<b>3.0</b>	B regular	2.50	
CSE 6503	Information System Management	<b>3.0</b>	A plus	4.00	

**Signature of the Course Co-ordinator:.....**

**15. Cost Estimate: [1,50,000.00 (maximum)]**

(a)	Cost of Material:	Tk. ....
(b)	Test Fees:	Tk. ....
(c)	Any other Costs:	Tk. ....
(d)	Typing, Drafting, Binding & Paper etc.:	Tk. .... <b>5,000/-(max.)</b>
Total:		
In words:		

**(Give Break-ups in separate sheet as per format)**

16. Justification of having Co-supervisor: N/A

17. ACPG/RAC/Doctoral Committee Reference:

Meeting no.: ..... Resolution No.: ..... Date: dd-mm-year

18. Result of the comprehensive examination for Ph. D (Photocopy of the result should be enclosed)

Date:..... Satisfactory/Unsatisfactory.

	Name and signatures of the members of the Doctoral Committee	
	1.	
Signature of the Student	2.	
Signature of the Supervisor	3.	
Signature of the Co-supervisor (if any)	4.	
Signature of the Head of the Department	5.	
	6.	
	7.	
	8.	

### Details Cost Estimation:

#### Cost of Experimental Items/Materials:

Sl. No.	Required Material	Brief Specification	Unit Price (Tk.)	Quantity	Total Price (Tk.)
1.					<b>0.00</b>
2.					<b>0.00</b>
3.					<b>0.00</b>
4.					<b>0.00</b>
Sub Total (Tk.):					<b>0.00</b>
In words:					

#### Test Details:

Sl. No.	Test Name	No. of sample	Test Fee per Sample (Tk.)	Total Test Fee (Tk.)	Test Venue	Reason for the Test to be done outside of DUET
1.				<b>0.00</b>		
2.				<b>0.00</b>		
3.				<b>0.00</b>		
4.				<b>0.00</b>		
Sub Total (Tk.):				<b>0.00</b>		
In words:						

#### Other Cost Details:

					Total Price (Tk.)
					<b>0.00</b>
					<b>0.00</b>
					<b>0.00</b>
					<b>0.00</b>
Sub Total (Tk.):					<b>0.00</b>
In words:					

### Check list for Confirmation

[Provide initials (sign) in the blank boxes]

<b>Item</b>	<b>Student</b>	<b>Supervisor</b>	<b>Doctoral Committee</b>
Title is meaningful and as per format			
Research Gap is clearly mentioned in Background			
Objectives align with the Title and the Research Gap			
Expected Contributions align with the Objectives			
Originality and Novel Contribution Assessed			
Gantt Chart Attached			
References are as per format			
Materials Brief specification is given			