



**Visvesvaraya Technological University**  
"Jnana Sangama", Belagavi - 590 018

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Date: - 7 OCT 2015

**CIRCULAR**

The Principals of affiliated Engineering Colleges are hereby informed that,

1. The Scheme of Evaluation of Engineering Physics Lab (15PHYL17/15PHYL27) and Scheme of Valuation of Engineering Chemistry Lab (15CHEL17/15CHEL27) for First/Second Semester B.E. /B. Tech., 2015-16 are placed on the VTU Website.
2. The Scheme of Evaluation in respect of Computer Aided Engineering Drawing and Workshop labs are already mentioned in the syllabus book.
3. The candidates admitted under lateral entry to III Semester B.E./B.Tech. during the academic year 2015-16 are required to opt for 10CIP18/28 and 10CIV18/28 subjects.
4. The Question Paper in respect of Mandatory non credit course i.e. 15CPH18/28 and 15CIV18/28 are objective Type question papers.
5. The contents of the circular issued from the office of the Registrar (Evaluation) in respect of III Semester M.Tech. Internship are to be adhered to.

The Principals of all the affiliated/ constituent engineering colleges of VTU are requested to bring the contents of this circular to the notice of all the concerned.

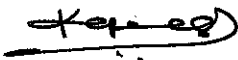
Sd/-  
REGISTRAR  
(Dr. K. E. Prakash)

To,

The Principals of all the affiliated/ constituent engineering colleges of VTU.

Copy FWCs to:

1. The Registrar (Evaluation), VTU Belagavi, for information and needful.
2. The Special Officers of VTU Regional Offices at Bengaluru, Belagavi, Kalaburagi & Mysuru, for information.
3. The Special Officer, Academic Section, VTU, Belagavi, for information.
4. The Secretary to VC, VTU, Belagavi, for information.
5. Office Superintendent, Academic Section, VTU, Belagavi, for information.
6. The CNC department to upload in VTU web site.

  
REGISTRAR  
(Dr. K. E. Prakash)

## Scheme of Valuation

Subject: Engineering Chemistry Lab

Code: 15CHEL17/15CHEL27

Description		Max. marks		Part A marks		Part B marks					
Procedure write-up		14		07		07					
Conduction		40		20		20					
Calculation, Graph works & Result		16		08		08					
Viva-Voce		10		Common to both parts							
<b>Part-A INSTRUMENTAL</b>						<b>Part-B VOLUMETRY</b>					
<b>Potentiometry, Colorimetry and Flame Photometry</b>		<b>pKa &amp; Viscosity</b>		<b>Conductometry</b>		<b>Total hardness, CaO in cement, Cu in Brass, Fe in Haematite and COD</b>		<b>Alkalinity of Water</b>			
								<b>Phenolphthalene Best 01(out of 03) titre value</b>		<b>Methyl Orange Best 01(out of 03) titre value</b>	
Error(cm <sup>3</sup> )	Marks	Error (%)	Marks	Error(cm <sup>3</sup> )	Marks	Error(cm <sup>3</sup> )	Marks	Error(cm <sup>3</sup> )	Marks	Error(cm <sup>3</sup> )	Marks
±0.50	20	±5.0	20	±0.50	10+10	±0.2	10+10	±0.2	10	±0.2	10
±0.51-0.6 0	18	±5.1-6.0	18	±0.51-0.6 0	9+9	±0.3	9+9	±0.3	9	±0.3	9
±0.61-0.70	16	±6.1-7.0	16	±0.61-0.70	8+8	±0.4	8+8	±0.4	8	±0.4	8
±0.71-0.80	12	±7.1-8.0	12	±0.71-0.80	6+6	±0.5	6+6	±0.5	6	±0.5	6
±0.81-1.0	08	±8.1-10.0	08	±0.81-1.0	4+4	±0.6	4+4	±0.6	4	±0.6	4
>±1.0	Zero	>±10	Zero	>±1.0	Zero	>±0.6	Zero	>±0.6	Zero	>±0.6	Zero
Graph : 5 marks Calculation : 3 marks		pKa : Two graphs 5+3 marks Viscosity: Calculation: 8 marks		Graph : 4 marks Calculation : 4 marks		Calculation: 8 marks <b>Note:</b> Best two (out of three) titre values to be considered for the valuation of volumetric experiments except <b>Alkalinity of water experiment.</b>					

### Instructions to the examiners

1. A different experiment should be set under Part-B for each batch in a day.
2. Under no circumstances, same experiment shall be set for more than three candidates in a batch under Part-A.
3. Allotment of Part-A experiments to the students shall be strictly by the lot system.
4. A change of experiment can be permitted for only one time under Part-A, strictly by lot system subject to the condition of deduction of **fifteen** marks under Part-A only.
5. Supplement (with question paper slip) and main answer sheet should be issued to the students in the beginning.
6. In the first ten minutes, students should write the outline of the procedure of the experiments to be performed of both Part-A and Part-B in Main answer sheet only and hand over the same back to the examiner.
7. Procedure of the experiment/s should **not** be provided to the students during examination under any circumstances.
8. Students shall be permitted to perform maximum **three titrations** under Part-B.
9. **Overwritten values** should not be considered for valuation.
10. Examiner should observe and put initial for the readings of the experiments.
11. Weight of the substance under Part-B should be different for all the students and weight of the substance should be given to the students only after confirming the initials for all the three titre values.
12. Blank titre value for the COD experiment under Part-B should be given to the students by the examiner.

## Scheme of Evaluation

**Subject:** Engineering Physics Lab.

**Code:** 15PHYL17/15PHYL27

The student has to perform **TWO** experiments during the practical examination of **THREE** hours duration. The scheme of valuation shall be as follows:

Description	Marks for First experiment	Marks for Second experiment
Write up: Formula, Tabular column and Circuit diagram / Ray Diagram	3+3+3 = 09	3+3+3 = 09
Experimental set up / Circuit connection	06	06
Conduction and reading	12	12
Graph, Calculations, Results and accuracy	2+2+1+1 = 06	4+2 = 06
Viva-Voce	07	07

Total = 40 + 40 = 80

**Note:** The student is required to obtain a minimum of 30 Marks in the practical examination to pass.