

## Chemistry Lab IV

Course Code: BEB451

Contact Hours: 30

Course Outline:

Credit: 01 (L-0, T-0, P-2)

MM: 50

### Instrumentation:

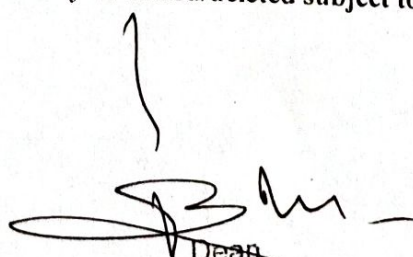
1. Separation of green leaf pigments (spinach leaves may be used)
2. Detection of Nitro group by reduction.
3. To separate given organic mixture for three components and identify each component.
4. To isolate Caffeine from tea.
5. Detection of functional groups: -COOH, -CHO, -OH and
6. Detection of special elements.
7. Extraction of clove oil from cloves steam distillation.

### Organic Derivatives:-

Preparation, Crystallization and Physical Constant:-

i) Acetyl Derivatives	:	a) Aniline	b) Salicylic Acid
ii) Benzoyl Derivatives	:	a) Aniline	b) $\beta$ -naphthol
iii) Hydrolysis Derivatives	:	a) Ethyl Benzoate	b) Aspirin
iv) Bromo-Derivatives	:	a) Phenol	b) Cinnamic Acid
v) Reduction Derivatives	:	a) m-dinitrobenzene	
vi) Osazone Derivatives	:	a) Sucrose	b) Glucose

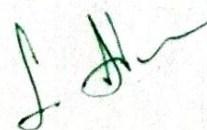
Note: Experiments may be added/deleted subject to availability of time and facilities



Dean  
Faculty of Education  
Invertis University  
Bareilly-243123, U.P



Head  
Department of Education  
Faculty of Education & Mass Comm.  
Invertis University, Bareilly (UP)



Registrar  
Invertis University  
Bareilly