

**B.L.D.E. Association's**  
**S.B. Arts and K.C.P. Science College**  
**Vijayapur**

**DEPARTMENT OF CHEMISTRY**

**GUEST LECTURE 2018-19**

**Topic: Liquid Crystals**

**For**

**M.Sc. Students**

**Date: 24/08/2018**

**Time: 10 AM.**

**VENUE**

**Seminar Hall,**

**S.B. Arts and K.C.P. Science College**

**BLDEA S.B. Arts and K.C.P. Science College, Vijayapur.**

**Department of Chemistry**

**Guest lecture**

**By**

**Dr. Chanabasappa**


# Notice

Date: 24/08/2018

All the M. Sc students are hereby informed to attend the guest lecture organised by PG Department of Chemistry on the Topic: **Liquid Crystals** on 24/09/2016 in seminar hall at 10.00AM.



Principal,  
S.B.Arts & K.C.P. Science College  
BIJAPUR.



Co-ordinator,  
P. G. Department of Chemistry,  
SB Arts & KCP Science College  
BIJAPUR - 586101  
Dept. of Chemistry  
SB Arts & KCP Sc. College  
Vijayapur.



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S,B.Arts & K.C.P.Science College,  
Vijayapur.

**Dr. Chanabasappa** is the Scientist, CeNMS, Jain University, Bengalur. He was come here to discuss the very important topic called **Liquid Crystals**. He briefly discussed about the above topic to M.Sc. students of our college were attained to this programme.

### TOPIC: **Liquid crystal**


Liquid crystals (LCs) are matter in a state that has properties between those of conventional liquid and those of solid crystal. For instance, a liquid crystal may flow like a liquid, but its molecules may be oriented in a crystallike way. There are many different types of liquidcrystal phases, which can be distinguished by their different optical properties (such as birefringence). When viewed under a microscope using a polarized light source, different liquid crystal phases will appear to have distinct textures. The contrasting areas in the textures correspond to domains where the liquidcrystal molecules are oriented in different directions. Within a domain, however, the molecules are well ordered. LC materials may not always be in a liquidcrystal phase (just as water may turn into ice or steam). Liquid crystals can be divided into thermotropic, lyotropic and metallotropic phases. Thermotropic and lyotropic liquid crystals consist mostly of organic molecules although few minerals are also known. Thermotropic LCs exhibit a phase transition into the liquidcrystal phase as temperature is changed. Lyotropic LCs exhibit phase transitions as a function of both temperature and concentration of the liquidcrystal molecules in a solvent (typically water). Metallotropic LCs are composed of both organic and inorganic molecules; their liquidcrystal transition depends not only on temperature and concentration, but also on the inorganicorganic composition ratio. Examples of liquid crystals can be found both in the natural world and in technological applications. Most contemporary electronic displays use liquid crystals. Lyotropic liquidcrystalline phases are abundant in living systems but can also be found in the mineral world. For example, many proteins and cell membranes are liquid crystals.



Other wellknown examples of liquid crystals are solutions of soap and various related detergents, as well as the tobacco mosaic virus, and some clays.

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# GUEST LECTURE 2018-19

## Topic: Liquid Crystals

Sl.N o	RCU No.	Name of the student	Signature
1	CH182001	Aishwarya Sajjan	
2	CH182002	Akshata Marab	
3	CH182003	Amruta Kashetti	
4	CH182004	Archana Pattar	
5	CH182005	Bandavva Pattanashetti	
6	CH182006	Bibizahera Bevanur	
7	CH182007	Daneshvani Walimarada	
8	CH182008	Deepa Kamble	
9	CH182009	Leela Harijan	
10	CH182010	Manjula Godihal	
11	CH182011	Meenaxi Hosamani	
12	CH182012	Pooja Sajjan	
13	CH182013	Priya Karabhari	
14	CH182014	Soumya Muttagi	
15	CH182015	Soumya Warad	
16	CH182016	Suvarna Gidaganti	
17	CH182017	Tabasum Badeghar	
18	CH182018	Tejaswini Pawar	
19	CH182019	Umarani Sachin	
20	CH182020	Veeresh Kambi	
21	CH182021	Vijyalaxmi Meti	
22	CH182022	Yallur Santosh	


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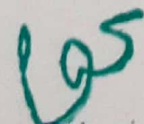
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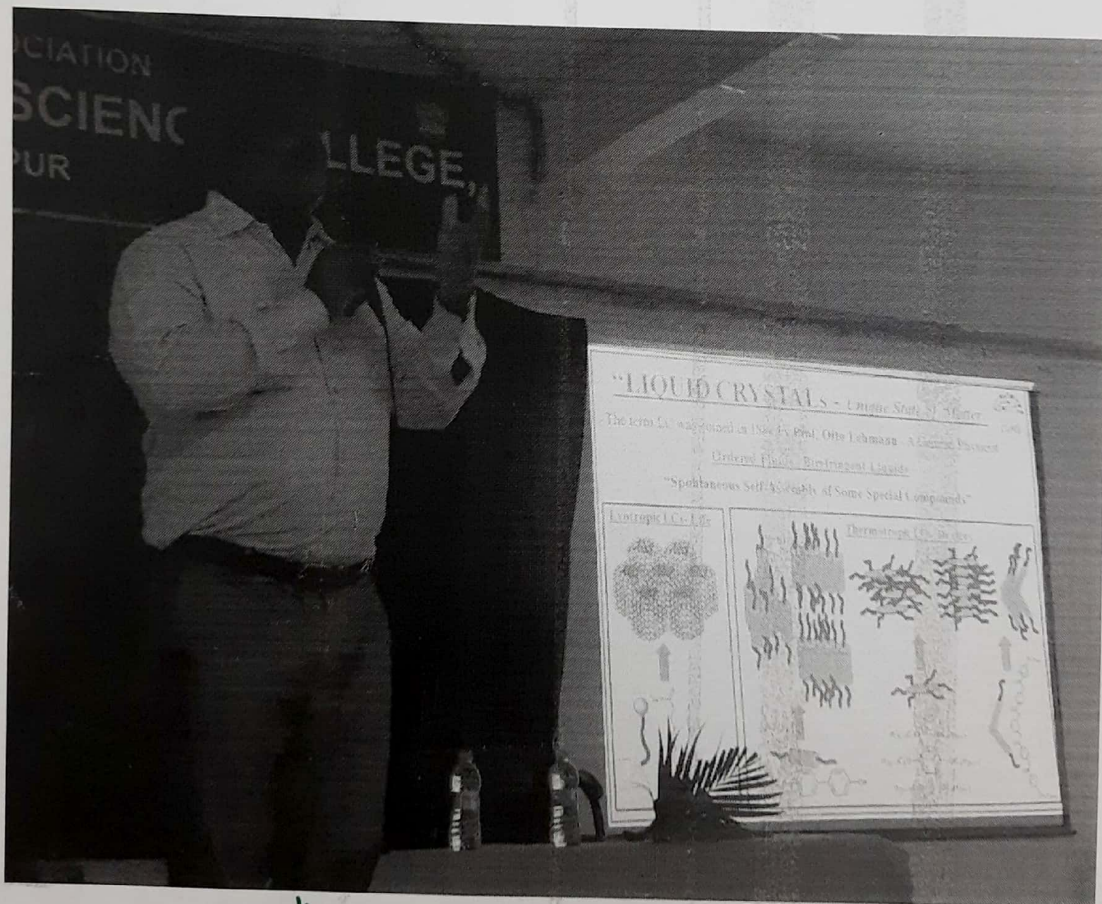
23	CH172001	Akshay Wadageri	Akshay Wadageri
24	CH172003	Basavaraj A Patil	Basavaraj
25	CH172004	Bhavan B Kulkarni	Bhavan.K
26	CH172005	Geeta Kuntoji	Geeta
27	CH172006	Geeta Tuppad	Geeta
28	CH172007	Hajimastan Mujawar	Haji
29	CH172008	Katyayani S Sirur	Katyayani
30	CH172009	Kavita Angadi	Kavita
31	CH172010	Malashri S Rokadi	Malashri
32	CH172012	Manjunath B Patil	Manjunath
33	CH172013	Neha Taslim	Neha
34	CH172014	Pooja Kengal	Pooja
35	CH172015	Pooja Pujari	Pooja
36	CH172016	Praveenkumar Denganavar	Praveenkumar
37	CH172017	Rakshata R Yandolli	Rakshata
38	CH172018	Sheshidhar Mamane	Sheshidhar
39	CH172019	Shweta Pande	Shweta
40	CH172020	Siddayya Pujari	Siddayya
41	CH172021	Sneha B Bagalkot	Sneha
42	CH172022	Sulegavi Jayalaxmi	Sulegavi
43	CH172023	Vinuta Khened	Vinuta


  
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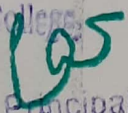
  
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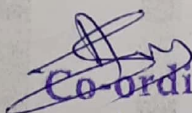
  
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