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ROLL NO.: ECP19109

DATE OF JOINING: 13TH AUGUST, 2019

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LABORATORY: Room No- 304

AREA OF RESEARCH: BIOSENSORS

TITLE /TOPIC (IF APPLICABLE): TMDC based FET sensor

SUMMARY:

In this research proposal aims is that to development of an organic transition metal chalcogenide (TMDC) field effect transistor (FET) for the sensing application. The TMDC used as a channel material in FET and investigation will be made for the reduction of contact resistance (R_c) and Schottky barrier height (SBH) between metal and TMDC, and also improve the carrier mobility and I_{on}/I_{off} ratio.

