

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM  
KARNATAKA, INDIA



*This is to certify that*  
*Manjunatha D V*  
*has been conferred the Degree of*  
**Doctor of Philosophy**  
*in*

Faculty of Electrical and Electronics Engineering Sciences

*for the thesis entitled*

Design of Motion Estimation Algorithm for Video Codec With  
VLSI Implementation

*in recognition of the fulfillment of requirements*  
*for the said degree*

PH 13 000432

Given under the seal of the University

USN: 1NH08PEN01

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Mijur, MOODBIDRI - 574 225, D.K.

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Professor Name: **D.V.MANJUNATHA** | College Name: **ALVAS INST. OF ENGG. AND TECHNOLOGY,MOODABIDRI,MOODABIDRI**

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| <b>VEERABHADRASWAMY K M</b> (USN: <b>1MV16PEJ03</b> )<br>VTU, Belagavi<br>VLSI, MEMS                   | Supervisor | Ph.D    | GM    | 27-Jan-2016   | No                                | <b>Modify   Delete</b> |
| <b>SUSHANTH ANIL LOBO</b> (USN: <b>4AL17PEA01</b> )<br>VTU, Belagavi<br>VLSI, MEMS                     | Supervisor | Ph.D    | GM    | 09-Aug-2017   | Yes<br><b>Final viva Finished</b> | <b>Modify   Delete</b> |
| <b>ARJUN SUNIL RAO</b> (USN: <b>4AL18PEC01</b> )<br>VTU, Belagavi<br>MEMS                              | Supervisor | Ph.D    | GM    | 12-Apr-2018   | Yes<br><b>Final viva Finished</b> | <b>Modify   Delete</b> |
| <b>Narsimha Rao M</b> (USN: <b>4AL20PEC01</b> )<br>VTU, Belagavi<br>Electronics & Communication (VLSI) | Supervisor | Ph.D    | GM    | 20-Jun-2023   | No                                | <b>Modify   Delete</b> |
| <b>NIJU RAJAN</b> (USN: <b>4AL19PEC01</b> )<br>VTU, Belagavi<br>Micro Electronics                      | Supervisor | Ph.D    | GM    | 23-Mar-2019   | No                                | <b>Modify   Delete</b> |
| <b>Bharathi D</b> (USN: <b>4AL22PEC01</b> )<br>VTU, Belagavi<br>VLSI                                   | Supervisor | Ph.D    | GM    | 01-Feb-2024   | No                                | <b>Modify   Delete</b> |
| <b>VENKATESWARLU MUKKU</b> (USN: <b>4AL20PEC02</b> )<br>VTU, Belagavi<br>VLSI                          | Supervisor | Ph.D    | GM    | 20-Mar-2020   | No                                | <b>Modify   Delete</b> |

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| <b>Arjun Sunil Rao</b> (USN: <b>4AL18PEC01</b> )<br>VTU, Belagavi<br>Electronics and Communication    | Supervisor | Ph.D    | GM    | 21-Apr-2018   | Yes<br><b>Final viva Finished</b> |
| <b>SUSHANTH ANIL LOBO</b> (USN: <b>4AL17PEA01</b> )<br>VTU, Belagavi<br>Electronics and Communication | Supervisor | Ph.D    | GM    | 22-May-2017   | Yes<br><b>Final viva Finished</b> |
| <b>NIJU RAJAN</b> (USN: <b>4AL19PEC01</b> )<br>VTU, Belagavi<br>Electronics and Communication         | Supervisor | Ph.D    | GM    | 29-Jun-2018   | No                                |

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