

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY,  
BELGAUM**



Project report on

**“Studies on Melanin Producing Fungi and  
Their Characterization.”**

Submitted in partial fulfillment of the requirement for the award of degree  
of

**BACHELOR OF ENGINEERING  
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# Abstract

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A diffusible dark brown pigment was produced from *Alternaria spp* and *Aspergillus niger*, it was grown on different nitrogen and carbon source, melanin was extracted from mycelia mat, the pigment was identified as melanin based on chemical test, and yield was estimated. Incorporation of L-Tyrosine in the culture medium enhanced the level of melanin production. The pigment was analyzed using spectrophotometer analysis, effect of temperature on melanin in different temperature, effect of oxidant, and metal ions was analyzed. *Alternaria spp*. Melanin showed good overall activity.

Key Words: Melanin , *Alternaria spp*, *Aspergillus niger*, L-Tyrosine