



भारतीय प्रौद्योगिकी संस्थान (भारतीय खनि विद्यापीठ), धनबाद
INDIAN INSTITUTE OF TECHNOLOGY (INDIAN SCHOOL OF MINES) DHANBAD
धनबाद -826004, झारखंड, भारत
DHANBAD-826004, JHARKHAND, INDIA

No. 901/EXAM/2199/PhD/ESE/JA/17

Dated: September 28, 2021

COURSE WORK CERTIFICATE

This is to certify that **Mr. Jitendra Ahirwal**, Registration no. **2014DR0047**, Research Scholar, Department of Environmental Science and Engineering, has passed the following papers as a pre-requisite requirement for pursuing Ph.D programme at Indian Institute of Technology (Indian School of Mines), Dhanbad (India).

Subject Code	Subject Title	Grade	Examination Held	Date of Result
ESE 51101	ENVIRONMENTAL ASPECT OF MINING, METALLURGY & THERMAL INDUSTRY	B	November 2014	01 st January, 2015
ESC 52103	SOLID & HAZARDOUS WASTE MANAGEMENT & LAND RECLAMATION	C+	April 2015	18 th June, 2015
HSC 61153	RESEARCH AND TECHNICAL COMMUNICATION	B	November 2015	31 st May, 2016
MSC 41000	RESEARCH METHODOLOGY & STATISTIC	C+	November 2015	31 st May, 2016

Assistant Registrar (Academic-PG)

Assistant Registrar (Acad.-PG)
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(Indian School of Mines), Dhanbad
Jharkhand - 826004, India



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TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Mr. Jitendra Ahirwal**, Admission. No. **2014DR0047** was a bonafide student of Ph.D. programme of Indian Institute of Technology (Indian School of Mines) Dhanbad and was registered for Ph.D. w.e.f. 31/01/2014.

Further, Mr. Jitendra Ahirwal had submitted thesis for doctoral degree for evaluation on 31/01/2018 and successfully passed the viva-voce examination on 01/06/2018. He was awarded the degree of Doctor of Philosophy of Indian Institute of Technology (Indian School of Mines) Dhanbad on the Ph.D thesis entitled "**RECLAIMED MINE SOIL QUALITY AND CARBON SEQUESTRATION POTENTIAL OF MINING INDUCED LANDUSE CHANGES IN A DRY TROPICAL CLIMATE**" vide notification no. Exam/219905/Ex.Bd/2007-08 (Vol.III) dated 27/06/2018.

IIT (ISM) Dhanbad is an Institute of National Importance established through The Institutes of Technology Act, 1961 of Govt. of India. IIT(ISM) Dhanbad follows following regulations for its Ph.D. programme:

1. Admissions of Ph.D. programs are made through interviews/presentation and/or written test.
2. For admission to Ph.D. programme Institute follows reservation policy of Govt. of India (for full time Ph.D. scholars).
3. As a part of academic requirements, the Ph.D. student is required to successfully complete Course work as per recommendation of DSC, pass Comprehensive exam and submit Ph.D. progress report/seminar periodically.
4. Department constitutes a mentoring and monitoring committee (Doctoral Scrutiny Committee) for each Ph.D. student.
5. Before proceeding to finalize the thesis, each Ph.D. student is required to deliver a Pre-submission seminar open to faculty and students in which the research carried out by the student is presented. The valid comments/suggestions received in the open seminar are incorporated in the thesis, if required.
6. Ph.D. scholars are allowed to present pre-submission seminar only after publication of at least two papers out of which one paper must in SCI/SSCI/SCOPUS indexed peer reviewed Journal.
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8. The hard copies of thesis are sent to three examiners (one abroad & two within India outside of IIT(ISM) Dhanbad) for evaluation.
9. An open Viva-Voce Board is constituted after receiving the reports from the examiners for examination of the student and for resolving queries, if any.
10. Hard copy of the final Ph.D. thesis is submitted to the Institute Library alongwith Digital copy of the thesis.

The above certificate is issued to Mr. Jitendra Ahirwal in response to his request for compliance of UGC Regulation 2009, for Ph.D. Degree.


Dean (Academic)

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Indian Institute of Technology
(Indian School of Mines), Dhanbad
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