



## Curriculum Vitae

1. Name (Block Letters) : **DR. PRASANNA KUMAR KHAUND**
2. Father's/Mother's/ Husband's Name : Late Jogen Ch. Khaund
3. Date of Birth : 21.10.1962
4. Current Designation : PROFESSOR & HOD,  
Civil Engineering
5. Department : CIVIL ENGINEERING
6. Institute : JORHAT ENGINEERING COLLEGE
7. Address for correspondence (with pin code) : **Department of Civil Engineering  
Jorhat Engineering College  
Jorhat -785007 (Assam)**
8. Permanent address( with pin code) : Asish Nagar, Tarajan, A.T. Road  
Jorhat – 785001 (Assam)
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### 9. Educational qualification

Qualification	Board/University	Year of obtaining degree	Specialization
B.E	DIBRUGARH UNIVERSITY	1986	CIVIL ENGG.
M.Tech	UNIVERSITY OF ROORKEE	1991-92	Hydraulic Engineering (Civi lEngg.)

### 10. Research Degree(s):

Degree	Name of the University	Date of award	Title
Ph.D	DIBRUGARH UNIVERSITY	2004	“EFFECT OF VARIABLE VISCOSITY & THERMAL CONDUCTIVITY ON HEAT MASSTRANSFER PROBLEMS OF FLUID DYNAMICS.”

### 11. Details of Teaching/Research/Academic experience:

Designation	Employer	Period of Service
Lecturer, P.O.W.I.E.T, Jorhat. & Asstt. Engineer, PWD,(Assam)		01.10.86-22.08.88
<b>Lecturer Jorhat Engg. College</b>	Secy. to the Govt. of Assam, Education Department, Dispur (Through A.P.S.C)	23.08.88-19.10.93
<b>Assistant Professor Jorhat Engg. College</b>	-do-	20.10.93-10.04.08
<b>Professor Jorhat Engg. College</b>	-do-	11.04.08- presently working
Working as Head, Civil Engg. Deptt		Feb, 2013- presently working

### 12. Details of publication

#### Journals

1. Goswami R.and Khaund P.K. “ A Study on the Performance of Physical Models of Permeable Screens in Meandering Reach of Alluvial Channels”Indian Journal of Natural Sciences www.tnsroindia.org.in ©IJONS Vol.13 / Issue 73 / Aug / 2022 International Bimonthly (Print) ISSN: 0976 – 0997
2. A Case Study on The Flow Parameters of River Pagladiya, A Tributary of Brahmaputra, International Journal of Advances in Mechanical and Civil Engineering, ISSN:2394-2827, Vol.2, Issue-3, June-2015.
3. A Study on The Effect of Porcupine on The Flow Velocity in a Tilting Type Channel Using Physical Model, International Journal of Advances in Mechanical and Civil Engineering, ISSN:2394-2827, Vol.2, Issue-3, June-2015
4. Chakravarty S and **Khaund P.K**(2015),“Flow Characteristics and Its Analysis around An Impermeable Groyne”, Proceedings of IRF International Journal of Mechanical and Production engineering (IJMPE),ISSN 2320-2092, Volume 3 , Issue-10 , pp 24-27 , October 2015
5. **Khaund P. K.** and Hazarika (2003) The Effect of Variable Viscosity And Thermal Conductivity on Steady MHD Flow Between Non-Parallel Plates, Bulletin of Pure & applied Science ( Sec.E). Vol.23, Dec’ 2003.(An International Journal)

#### Book/e-book/bookChapter :

1. SnigdhaKalita, **P. K. Khaund** (2022),”Stability Analysis of Riverbank Erosion”, PP187-194, Chapter 20, Sustainable Water Resources Management (2023), Advances in Sustainability Science and Technology, Springer Nature, Singapore.
2. KhaganaBuragohain, **P. K. Khaund**, (2021), “Study on Stability Analysis of South Bank of River Brahmaputra and Its Tributaries in the Reaches of Upper Assam”, Lecture notes in Civil Engineering-133,pp 667-677, Proceedings of the Indian Geotechnical Conference 2019, Springer Nature, Singapore.

## Conferences:

1. Kalita S., **Khaund P. K.** (2021) “Safety Analysis Of Alluvial Riverbanks” *Proceeding of International Conference on Hydraulics, Water Resource an Coastal Engineering (HYDRO 2020) organized by NIT Rourkela and Indian Society for Hydraulics (ISH), Pune, held on 27th of March, 2021.*
2. Kalita S., **Khaund P. K.** (2020) “Riverbank Slope Stability Analysis” *TH-06-49, Proceeding of Indian Geotechnical Conference 2020 (DIGEST) organized by Indian Geotechnical Society and Department of civil engineering Andhra University College of Engineering, Vishakhapatnam Chapter.*
3. Buragohain K., **Khaund P. K.** ( 2019) “Study on Stability Analysis of South Bank of River Brahmaputra And Its Tributaries in the reaches of Upper Assam”, *Indian Geotechnical Conference (IGC) 2019, 19-21 December 2019, IGC Surat chapter & SVNIT, Surat, India*
4. Hazarika M. and **Khaund P.K** (2018), “Dynamic Analysis of Gravity Dam Under The Effect of Dam Reservoir Foundation Interaction” ,*Proc. Indian Geotechnical Conference 2018, IIT Madras, Chennai, India, 14-16 Dec. 2018*
5. Baruah P. and **Khaund P.K.**(2018). “Stability Analysis of Earthen Dam with Improvised Soil”.*Proc. International Conference on Civil Engineering Sustainable development-Opportunities and Challenges ,CESDOC2018, AEC,Guwahati, India, 18-19 Dec.2018*
6. Baruah P. and **Khaund P.K.**(2018). “Bio-medicated Soil Improvement”. *Proc. International Conference on Civil Engineering Sustainable development-Opportunities and Challenges ,CESDOC2018, AEC,Guwahati, India, 18-19 Dec.2018*
7. Baruah P. and **Khaund P.K.**(2018). “A Study of Stability of Earthen Dam with Bentonite Mixed Silty Soil”. *Proc. International Conference on Infrastructure development,ICID2018, JEC,Jorhat, India, 21-22 Dec.2018*
8. Talukdar S. and **Khaund P.K.**(2018). “The Effect of Variation of Seismic-Coefficients And Location of Drainage Gallery on The Base-Width of A Concrete Gravity Dam”. *Proc. International Conference on Infrastructure development,ICID2018, JEC,Jorhat, India, 21-22 Dec.2018*
9. Baruah S.J, Goswami R., **Khaund P.K.** (2018). “A Study on The effect of Permeable Spur in Flow Diversion From Near Bank Within The Straight Reach of An Experimental Channel”. *Proc. International Conference on Infrastructure development,ICID2018, JEC,Jorhat, India, 21-22 Dec.2018*
10. Hazarika M. and **Khaund P.K** (2018). “Effect of Base Width of Concrete Gravity Dam and Tail water Presence on Dynamic Response of Concrete Gravity Dam Including Soil-Fluid-Structure Interaction.” *Proc. International Conference on Infrastructure development,ICID2018, JEC,Jorhat, India, 21-22 Dec.2018*
11. **Khaund P.K.**, Sarma R., Das N., Goswami A., Bhattacharjee P., Dutta C.J., Lahkar A.(2018). “Improvement of Cohesive Soil Using Coir Fibre”. *Proc. International Conference on Infrastructure development,ICID2018, JEC,Jorhat, India, 21-22 Dec.2018*

12. **Khaund P.K.**, Bhuyan A., Pegu B.J., Choudhury D., Konyak J.C., Kalita R., Kakoti S. (2018). "Improvement of Cohesionless Soil Using Bentonite for Earthen Dam Or Embankments." *Proc. International Conference on Infrastructure development, ICID2018, JEC, Jorhat, India, 21-22 Dec. 2018*
13. Talukdar S. and **Khaund P.K.** (2017). "Effect of Static Loading and Uplift Parameters on The Stability of A Concrete Gravity Dam" *5<sup>th</sup> International Conference on CSM; 17 on 02-03 September, 2017, Zurich, Switzerland*
14. Talukdar S. and **Khaund P.K.** (2017), "Optimisation of Base Width of Typical Concrete Gravity Dam under Different Seismic Condition Using Static Seismic Loading", *Proc. Indian Geotechnical Conference 2017, IIT Guwahati, Guwahati, India, 14-16 Dec. 2017*
15. Baruah S. S. and Khaund P. K. (2017), "Improvement of Engineering Properties of Cohesive Soil Using Brick Dust As Admixture", *Proc. Indian Geotechnical Conference 2017, IIT Guwahati, Guwahati, India, 14-16 Dec. 2017*
16. Chaki S. And **Khaund P.K.** (2016), "Backwater Effect Due to Bridge Piers and Pressure Variation Around Pier Surface.--National Level conference on Engineering Problems and Application of Mathematics. June, 2016, NIT, Agartala
17. Kakoti P. and **Khaund P.K.** (2016), "Improvement of Shear Parameter of Highly Cohesive Soil Using Cement and Fly Ash as Admixture", *National Level conference on Engineering Problems and Application of Mathematics. June, 2016, NIT, Agartala.*
18. Konwar N. and **Khaund P.K.** (2016), "An Experimental Study of Variation in Flow Parameters due to the Effect of Spur", *1<sup>st</sup> International Conference on Civil Engineering for Sustainable Development, CESDOC 2016 19-20 December, 2016, Assam Engineering College, Guwahati, India*
19. Chakravarty S and **Khaund P.K.** ,( 2015) "Flow Characteristics and Its Analysis around An Impermeable Groyne", *Proceedings of IRF International Conference ICEECE, 9th August 2015, Chennai, India, IR-MBMECHEN-02085-201.*
20. Puzari P. and **Khaund P.K.** ( 2015) "Improvement of Compaction Parameter and CBR of Expansive Clayey Soil With High Plasticity Using Fly Ash", *Proceedings of Advances in Civil and Infrastructure Engineering (ACIE) May 8-9, 2015, Tezpur University, Tezpur, India*
21. Sonowal P. , Khaund P.K. ( 2015), "Variation of Physical Properties of Ordinary Portland Cement With Partial Replacement of Class-'F' Fly Ash", *Proceedings of IRF International Conference, 19th September 2015, Coimbatore, India, ISBN: 978-93-82702-03-0*
22. **Khaund P.K.** and Hazarika G.C. (2002), "The Effect of Variable Viscosity And Thermal Conductivity On Steady MHD Flow Through A Specially Characterised Horizontal Channel", *Proceedings of the 47<sup>th</sup> ISTAM ( An International meet) and also presented in the conference held in IIT, Guwahati, Dec, 2002*
23. **Khaund P.K.** and Hazarika G.C. (2002), "The Effect of Variable Viscosity And Thermal Conductivity on Liquid Film on an Unsteady Stretching Surface", *Proceedings of the 46<sup>th</sup> Annual Technical Session, Assam Science Society, Vol2, 2000 and also presented in the Technical Session held at AAU, Jorhat*

24. **Khaund P.K.**, Mittal M.K., Porey P.D. (1994), “Discharge Characteristics of Sluice Gates Placed on Undersluice Bays of a Diversion Structure”, *Proceedings of National Symposium on Recent Trends in Design of Hydraulic Structures and also presented in the conference held at UOR, Roorkee (NASORT DHS-94) March, 1994*

13. **Area of Specialization:** Hydraulic Engineering

14. **Areas of Research Interest :** Design of Hydraulic structures, Erosion and Bank stability, Design of different Civil engineering structures, Geotechnical investigation.

15. **M.Tech Dissertation Supervised:**

SI No.	Name of Student	Dissertation	Year	Status
1.	Ms. Pori Sonowal	Effect of Fly Ash And Rice Husk Ash On Cement	2015	Completed
2.	Mr. Supran Chakravarty	Study Of Flow Characteristics Around Spur With Variation Of Spur Interval	2015	Completed
3.	Mr. Pranjal Puzari	Improvement Of Engineering Properties Of Locally Available Soil Used As Subgrade Material Using Fly Ash , Cement And Lime	2015	Completed
4.	Ms.Pooja Kakati	Improvement Of Shear Parameters And Permeability Of Soil Using Admixtures	2016	Completed
5.	Mr. Souryadeep Chaki	An Experimental Study On Flow Characteristics Around Bridge Pier	2016	Completed
6.	Mr. Nishimon Konwar	An Experimental Study On Variation In Flow Parameters Due To The Effect Of Spur	2016	Completed
7.	Ms. Sukanya Talukdar	Effect Of Static Seismic Loading And Uplift Parameters On The Base Width Of A Concrete Gravity Dam	2017	Completed
8.	Ms. SilpiSikha Baruah	A Comparative Study of Variation Of Soil Parameters With The Addition Of Different Admixtures	2017	Completed
9.	Mr. Santanu Pratim Das	An Experimental Study On The Variation of Hydraulic Parameters Around Bridge Piers	2017	Completed
10.	Ms. Pranamee Baruah	Stability Analysis Of Earthen Dam With Variation Of Improvised Soil uisng Bentonite	2018	Completed
11.	Mr. Manish Hazarika	Effect Of Base Width On Seismic Response Of Gravity Dam Including	2018	Completed

		Soil Fluid Structure Interaction		
12.	Ms. Khagana Buragohain	Study On Stability Analysis Of South Bank Of River Brahmaputra And Its Tributaries In The Reaches Of Upper Assam	2019	Completed
13.	Mr. Dhrupad Bora	Improvement Of Cohesive Soil Using Jute Fibre	2019	Completed
14.	Mr. Bhaskar Jyoti Kalita	A Comparative Study On The Performance Of Porcupine Screens In The Meandering Reach Of An Alluvial Stream	2020	Completed
15.	Ms. Snigdha Kalita	Slope Stability Analyses Of Alluvial Riverbanks	2020	Completed
16.	Mr. Avishek Goswami	Stability Analysis Of Different Alluvial Riverbanks In The Reaches Of Upper Assam	2021	Completed
17.	Ms. Rumi Goswami	Study On Cement Treated Sub-Base	2021	Completed
18.	Ms. Swagata Sonowal	Stability Analysis Of Highway Embankment Using Admixture	2022	Ongoing
19.	Ms. Darshana Borah	3D Analysis On Geogrid Reinforced Railway Embankment Stability On Different Soil Parameters Using Abaqus	2022	Ongoing

### 16. PhD Thesis Supervised

Sl No.	Name of Student	Research Topic	Year of registration	Status
1.	Mr. Rituparna Goswami	A study on Performance of Permeable screens in Alluvial channels.	2017	Ongoing (Near in Completion)
2.	Mr. Pranab Das	Optimization of Reservoir Siltation	2019	Ongoing
3.	Mrs. Joba Goswami	Study on Bank Erosion of River Brahmaputra in Majulee area.	2021	Ongoing

### 17. Special Academic works :

Sl. no.	Activities		Period
1.	Member of Academic Council	Assam Science & Technical University, Guwahati	03.11.2020-02.11.2025 Nominated by V.C., ASTU
2.	Member of Board of Studies for "Faculty of Civil Engineering"	Assam Science & Technical University, Guwahati	From 2017 onwards
3.	Chairperson, Departmental Research Committee	Dibrugarh University, Dibrugarh	From January, 2016
4.	Member cum Chairperson of Doctoral Committee	Assam Science & Technical University, Guwahati.	w.e.f 24.05.2022
5.	Asstt. Zonal Officer for End semester Examination under D.U	Dibrugarh University, Dibrugarh	2017 to 2019.
6.	Board of Study Member in Faculty of Civil Engineering.	Malnad College of Engineering, Hassan, Karnataka	2018 to 2021
7.	Examining two( 2)PhD Thesis in the Faculty of Civil Engineering	Under Gauhati University and also appointed as External Examiner by G.U	
8.	External Examiner of M.E. Dissertation	Assam Engg. College under G.U.	

**18. Chair in Conference/ Invited Lecture/ Key note speaker: ( Outside the Institute):**

Sl. No.	Invited Technical Talk	Topic
1.	<b>Expert Talk</b> in Civil Engineering Depart, <b>Malnad College of Engineering, Hassan, Karnataka</b> on 03 <sup>rd</sup> July, 2019	<b>" Erosion and its Measure in River Brahmaputra"</b>
2.	Delivering <b>Expert Talk</b> in the Two Days " <b>International Workshop onAdvances in Sustainable" Civil Infrastructure Development( IWASCID-2019)</b> organised by Department of Civil Engineering, School of Engineering & technology, The Assam Kaziranga University, Jorhat, Assam on 22 <sup>nd</sup> & 23 <sup>rd</sup> January,2019	<b>" Erosion Control in River Brahmaputra&amp; its Tributaries"</b>
3.	Attended as <b>Chief Guest</b> in a One-day National Workshop on "Recent Developments in Civil and Earthquake Engineering, 2018 at <b>CSIR-NEIST</b> , Jorhat 9 <sup>th</sup> April, 2018	<b>"Challenges and recent Developments in Civil and Earthquake Engineering"</b>

4.	Attended the inaugural Session of a 2-days Technical Workshop in “ Advances in Civil Engineering” as <b>GUEST OF HONOUR</b> in Kaziranga University, Jorhat, Assam on 26.09.2018 & 27.09.2018	<b>“Recent Trends in Civil Engineering”</b>
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**19. Details of participation in Faculty Development program/STTPs/Training activities:**

Sl No.	Details of FDP/STTPs/Training activities attended	Period	Organisation
1.	TEQIP-III sponsored Short Term Programme- “ Recent Advances in Civil Engineering	2020	JEC
2.	Dissemination Workshop entitled “Morphological Studies of River Brahmaputra, Subansiri and Pagladiya using Remotesensing Technique”	2019	Department of Civil Engineering, IIT, Guwahati
3.	TEQIP-III sponsored Short Term Programme- “ Recent Advances in Civil Engineering	27 <sup>th</sup> to 31 <sup>st</sup> August,2018	JECa
3.	In-house Training on “Faculty Induction Training”:	07.05.2018-17.05.2018 ( 2-Weeks)	NITTR, Kolkata and JEC, Jorhat
4.	Attending a Brain Storming Session for New Research in the Field of Civil Engineering ( Water Resource Engg.) under D.S.T.	2014	IIT, Guwahati
5.	i. IRC Conferences, 67 <sup>th</sup> IRC Annual Session ii. IRC Conferences,74 <sup>th</sup> IRC AnnualSession	2006 2014	Panchkula ,Hariyana Guwahati
6.	Various Workshops on quality control, Performances, New design codes, Guidelines of PMGSY etc. as co-ordinator STA, PMGSY.	2001 to 2015 on different dates.	New Delhi, Kolkata, shillong, Tawang , Guwahati, Bhubaneswar, Gangtok.
7.	Indian Roads Congress seminar on “Integrated Development of Rural & Arterial Roads Network for Socio-Economic Growth”	2003	UdyuogBhavaban, New-Delhi
8.	Six Weeks Training Course on “Earthquake Engineering” under Ministry of Home Affairs, Govt of India	22.02.2005 – 12.03.2005 & 18.04.2005 - 06.05.2005	IIT, Guwahati Department of Civil Engg)
9.	Forty Seventh Congress of The Indian Society for Theoretical & Applied Mechanics ( An International Meet)	December 23 - 26, 2002	IIT, Guwahati



10.	46 <sup>th</sup> Annual Technical Session, Assam Science Society	2001	AAU, Jorhat
11.	One week Short Term Training Program on “Education Technology”	21.05.2001 to 25.05.2001	Technical Teachers’ Training Institute, Kolkatta
12.	Capacity Building for Project Managers of Building Centres	July 7 <sup>th</sup> to 19 <sup>th</sup> , 1997	H.S.M.I, New Delhi Decentralised Training for Urban Development Project
13.	One week QIP Winter School on “Wind Flow effects around Built Form”	19 <sup>th</sup> to 24 <sup>th</sup> December, 1994	IIT, Kharagpur
14.	National Symposium on Recent Trends in Design of Hydraulic Structures ( NASORT, DHS-94)(Presented & published a paper)	1994	UOR, Roorkee
15.	Two Weeks Q.I.P Short Term Course on “Developments in Pavement Engineering”	28 <sup>th</sup> June to 9 <sup>th</sup> July, 1993	IIT, Kharagpur
16.	Two Weeks Q.I.P Short Term Course on “Optimization & Stochastic Methods In Water Resources Management”	6 <sup>th</sup> to 18 <sup>th</sup> July, 1992	IIT, Kanpur

**20. List of short term courses organised/Conferences arranged/Course modules developed**

Sl No.	Details of STTP/conferences organised	Venue	Date
1.	Chairman of the organising Committee -- "International Conference on Infrastructure Development (ICID-2018)" under TEQIP-3	JEC	21 <sup>st</sup> & 22 <sup>nd</sup> December, 2018
2.	One Week Short Term course on “Disaster Management” under AICTE/ NEQIP as co-ordinator cum Chairman	JEC	From 09.02.2015 to 13.02.2015
3.	Conducting 10 nos. of 1-week Training Programme to the Field Engineers of P.W.D, Nagaland & R.W.D, Arunachal Pradesh on “CONSTRUCTION & MAINTENANCE OF RURAL ROADS UNDER PMGSY” ( Under Ministry of Rural Works Departments, Govt. of India )	JEC	In the year 2005 - 2007.
4.	4 Nos of One Day Mason Training Programme for the Masons of Jorhat, Sivasagar and Golaghat District. ( Sponsored by STAR CEMENT )	JEC	2016

5.	1 week Training Programme for the mason“ Low cost Building” –under JEC Building Centre	JEC	1996
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### 21. Professional membership:

Sl No.	Details	Organisation	Year
1.	LMIRC	Indian Road Congress	LM-32481
2.	FIE ( Fellow )	The Institution of Engineers (India)	F- 114273-5, 13.06.2009
3.	LMISTE	Institute of Science& technology	LM-9134, 18.07.1991
4.	Member	State Dam Safety Committee for the state of Assam	10.06.2022 Onwards
5.	Member	Governing Body, JEC, Jorhat	2017
6.	Vice-President	JEC Student Union	From 2012 onwards
6.	Executive member	Construction Committee of JEC- Auditorium sponsored by OIL, Research –Scholar’s hostel sponsored by Power-Grid Corp., Canteen Building constructed from Consultancy Fund	2018-2021
7.	Technical-Member	Construction Committee, Bahona College, Jorhat	
7.	Member	Board of Management& Board of Study of Community College under Bahona College, Jorhat	
8.	Member	Construction Committee, For Renovation of Jorhat Govt. Boys’H.S. School	Nominated by D.C, Jorhat
9.	Co-ordinator	State Technical Agency for Assam, Arunachal Pradesh and Nagaland under Ministry of Rural Works Department, Govt.of India	NRRDA
10.	Working President	JEC Alumni Association	
11.	Member	Grievance Cell, Academic board, Anti-Ragging Committee of JEC	

## 22. Details of Major Consultancy Projects involved

Sl No.	Details	Organisation	Year	Amount
1.	Co-ordinator STA for “Scrutiny Of DPR for PMGSY schemes of Nagaland, Arunachal Pradesh, Meghalaya and Upper Assam”	NRRDA, under Ministry of Rural Works Department, Govt. of India.	From 2000 onwards	Based on DPR Estimated Cost.  More than Rs. 200 Lakhs from the beginning.
2.	Evaluation of Water Resource Schemes under Govt. of India .	Water Resource Department, Govt. of Assam	From 2005 onwards	Several Projects .

## 23. Other information:

Sl No.	Details	Year
1.	Attended the MOU signing between IIT, Guwahati and JEC in presence of Principal JEC, Director, IITG; HoD, CED, IITG at IIT, Guwahati for Student’s internship, research activities, library and laboratory use etc.	24.04.2018
2.	Attended the MOU signing between OIL and JEC at Oil India Ltd., Duliajan, Assam for sponsoring the Auditorium at JEC by OIL .	December, 2016
3.	Attended the Workshop on “ <b>Governance</b> ” conducted by NPIU and AICTE in the Auditorium of AICTE, Basant Kunj, New Delhi	23.01.2018
4.	On behalf of the Principal, JEC, <b>MOU with Malnad College of Enginnering, Hasan, Karnataka</b> as Mentor institute for TEQIP-III in Presence of Dr. P.M. Khodke, <b>CPA, NPIU in New Delhi.</b>	18.09.2017
5.	Visited Malnad College of Engineering For orientation programme of our Students.	24.02.2017
6.	Attending Workshop On Envirmental Scope in Institute	2019
7.	Time to time In-charge Principal, JEC in absence of the Principal	