

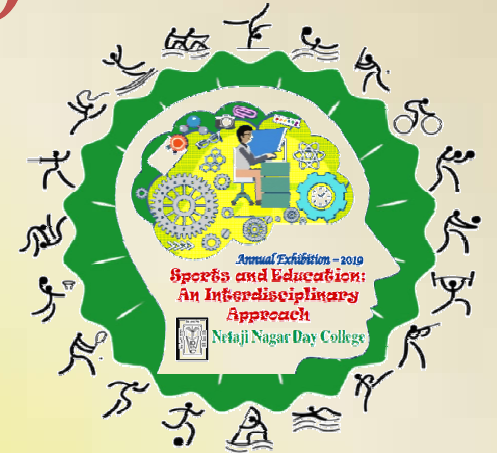
Annual Exhibition

Sports and Education: An Interdisciplinary Approach



January 29th & 30th, 2019

Organized by



NETAJI NAGAR DAY COLLEGE

(Under Graduate & Post Graduate Institution)

Affiliated to University of Calcutta • Accredited by NAAC (B++)

170/436, N.S.C Bose Road, Regent Estate, Kolkata – 700092

Annual Exhibition-2019
“Sports and Education: An Interdisciplinary Approach”
January 29th & 30th, 2019
Glimpse



Annual Exhibition-2019
“Sports and Education: An Interdisciplinary Approach”

January 29th & 30th, 2019

Glimpse

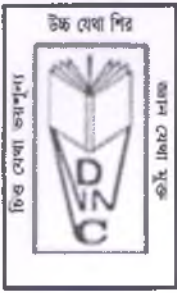


Annual Exhibition-2019
“Sports and Education: An Interdisciplinary Approach”

January 29th & 30th, 2019

Glimpse





NETAJI NAGAR DAY COLLEGE

(Under Graduate & Post Graduate Institution)

Affiliated to University of Calcutta

Accredited by NAAC (B⁺⁺)

170/436, N.S.C. BOSE ROAD

REGENT ESTATE – KOLKATA - 700092

Ref. No.....

Date: 22.01.2019

Invitation Letter

To,

Mr. Kanu Majumdar

Secretary

West Bengal Body Building Association

Kolkata.

Dear Sir,

It is our pleasure to inform you that we are organizing the Annual Exhibition on 29th and 30th January, 2019 at our college campus. The theme of the exhibition is "Sports and Education: An Interdisciplinary Approach".

We look forward to your gracious presence on this occasion.

With regards,

Yours truly,

Dr. Sonali Banerjee Jash

Principal

Netaji Nagar Day College

Principal

Netaji Nagar Day College

Kolkata - 700 092

Annual Exhibition on
Sports and Education: An Interdisciplinary Approach
January 29th & 30th, 2019
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NETAJI NAGAR DAY COLLEGE
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170/436, N.S.C Bose Road, Regent Estate, Kolkata – 700092

SCHEDULE OF THE EXHIBITION

DAY 1

29.01.2019 (TUESDAY)

11:00 am to 12.15 pm: Inaugural Session

Speakers:

1. Dr. Samir Kumar Saha, Ex-Professor and Head ,Mechanical Engineering Department ,Jadavpur University
2. Mr. Kanu Majumdar, Secretary, West Bengal Body-Building and Welfare Association
3. Mr. Samir Ghosh, Mr. Universe 2008 and Fitness Mentor, Kolkata

12.15 pm to 12.30 pm: Tea Break

12.30 pm to 5 pm: Exhibition Hour (Open to all)

Day 2

30.01.2019 (WEDNESDAY)

11:00 am to 3 pm: Exhibition Hour (Open to all)

3 pm to 3.30 pm: Tea Break

3:30 pm: Valedictory Session

Session Chair

Dr. Abhijit Majumdar, Department of Physics, IEST Shibpur Howrah & President, Governing Body, Netaji Nagar Day College.

Conclusive Remarks by

Dr. Soumya Sen, Assistant Professor, A.K. Choudhury School of Information Technology, University of Calcutta

Venue:

Inaugural Session: Room No. MB - 8

Exhibition: Room No. A2 & Room no.25 (New Building)

Valedictory Session: Room No. MB – 8

Annual Exhibition-2019

*“Sports and Education: An
Interdisciplinary Approach”*

January 29th & 30th, 2019

REPORT

Organized by

**Netaji Nagar Day College
170/436, N.S.C. Bose Road
Regent Estate, Kolkata - 700092**

Report of the Annual Exhibition on *Sports and Education: An Interdisciplinary Approach* organized by Netaji Nagar Day College during January 29th & 30th, 2019

The Annual Science Exhibition 2019 for Netaji Nagar Day College was held on 29th & 30th January, 2019 in the college campus with high grandeur. The theme of the exhibition for this year was "**Sports and Education: An Interdisciplinary Approach**". Seventy three Students in 24 exhibitor groups from different Departments of Science, Arts and Commerce participated with great enthusiasm.

An exhibition organizing committee had been formed with the following members:

Dr. Chanchal Guha Roy, Dr. Surajit De, Dr. Sucharita Mitra(Sarkar), Dr. Krishna Gangopadhyay, Smt Malabi Chakraborty, Dr. Barnali Dutta, Sri Probhas Mondal, Smt. Sanjukta Pan, Dr. Sayantani Das, Sri Pitambar Das, Smt Mita Karmakar, Smt Ivy Siddhanta, Sri Suman Patra, Smt Ishita Nag, Dr Shantanu Ganguly, Dr. Ujjwal Kr. Pahari, Sri Nadim Haider, Dr. Bhumika Pradhan, Dr Jayeeta Paul, Mousumi Pramanick, Smt Mitra Tithi Dey, Sri Santanu Pan, Sri Puspendu Roy, Dr. Sujay Kr Nayek and Dr. Satarupa Sarkar (Joint Conveners).

Staff members: Sri Biplab Das, Sri Amar Chatui, Smt Baishali Mukherjee, Sri Ratan P. Harijan, Sri Ajoy Kr. Chowrasia, Sri Tarak Das, Sri Dilip Adhikary. *Student member:* Sri Surya Kanta Chowdhury (G.S.).

The participation level of students in this year's exhibition had been phenomenal. Several interesting models and posters were presented by students in groups. Some of them carried innovative ideas and vision, widely appreciated by the viewers. Prizes were awarded to top performer groups in three categories. There was an arrangement of two special prizes also. The audience of the show not only comprised of college students, but even students from adjacent schools and locality were drawn into the event out of interest.

On other hand, it was our privilege to have honorable Dr. Samir Kumar Saha (Ex-Professor & Head, Mechanical Engineering Department, Jadavpur University) rendering the inaugural speech on this auspicious occasion. Special guests of this event were Mr. Kanu Majumdar, Secretary, West Bengal Body Building Association, Kolkata and Mr. Samir Ghosh, Mr. Universe 2008 and Fitness Mentor, Kolkata. They shared their life story, achievements and also gave valuable ideas and information about how to care physical as well as mental health in our daily busy lives. Each of the dignitaries visited the exhibition stalls and encouraged the students in coming out with new ideas and presentation of the same through the models. This indeed boosted the enthusiasm of the participants to a significant level.

In the valedictory session, Dr. Soumya Sen, Assistant Professor, A.K. Choudhury School of Information Technology, C. U., Kolkata gave some important suggestions to the participants so that they can improve their performances in the next year and also congratulated the organizers of the event and wished them grand success in the years to come. The event was concluded with a perfect feeling of cooperation and harmony among students, teacher and office staffs. The essence behind success of this event was the work distribution, planning and organization aided by students, faculty members, non teaching staffs & student union members with a perfect coherence between each unit. Last but not the least, the guidance cooperation and inspiration from our Principal deserves a special note of appreciation.

Sujay Kr. Nayek Satarupa Sarkar

Dr. Sujay Kr. Nayek & Dr. Satarupa Sarkar

Joint Convener(s)

Annual Exhibition on
Sports and Education: An Interdisciplinary Approach
January 29th & 30th, 2019

To
The Principal
Netaji Nagar Day College
170/436, N.S.C Bose Road
Regent Estate, Kolkata-700092

Dated: 07.11.2019

Subject: Submission of the adjustment voucher against an advance of Rs.50,000.00 drawn for conducting the above mentioned annual exhibition.

Dear Madam:

Enclosed please find the adjustment voucher, supported by bills, against an advance of Rs.50,000.00 (Rupees Fifty Thousand Only) drawn for conducting the Annual Exhibition on “*Sports and Education: An Interdisciplinary Approach*” during January 29th & 30th, 2019 in our college premises.

With regards,

Yours sincerely,

Sujay Kr. Nayek *Satarupa Sarakar*
(Dr. Sujay Kr. Nayek & Dr. Satarupa Sarakar)
Joint Convener(s),
Annual Exhibition 2019
Netaji Nagar Day College
Kolkata 700092

Encls:

1. Original bills (V1 to V50)

**The adjustment voucher against an advance of Rs.50,000.00 drawn for
conducting the above mentioned annual exhibition.**

Sl. No.	Bill No.	Items/Goods	Amount (Rs.)
1	V1 - V5	Honourium for the Guests	5000.00
2	V6	Mementos	2940.00
3	V7, V8	Ratan Da (To Arrange Benches)	3200.00
4	V9, V10	Room Decoration & Metals	8500.00
5	V11	Flower Sticks	600.00
6	V12 – V14	Prizes (Books)	2538.00
7	V15, V15a, V16, V16a	Flex, Certificates and Stickers Print	3086.00
8	V17 – V25, V19a	Tea, Tiffin, Chocolates and Cakes	11316.00
9	V26 – V43	Bills of Exhibitors Groups	10444.00
11	V44 – V49a	Xerox, Pictures Print & Album	2177.00
12	V50	Others	199.00
		Total Expenditure:	50,000.00

Sujay Kr. Nayek Satarupa Sarakar
(Dr. Sujay Kr. Nayek & Dr. Satarupa Sarakar)
Joint Convener(s),
Annual Exhibition 2019
Netaji Nagar Day College
Kolkata 700092

REPORT

ANNUAL EXHIBITION-2019 (January 29th & 30th), NETAJI NAGAR DAY COLLEGE, KOLKATA

Theme of Annual Exhibition-2019: **SPORTS AND EDUCATION: AN INTERDISCIPLINARY APPROACH**

Joint Convener (s): Dr. Sujay Kr. Nayek & Dr. Satarupa Sarkar

Total amount drawn in advance: Rs. 50000/-

Total Number of Under Graduate Departments in NNDC: 18

Number of P.G. Departments in NNDC: 01

Total Number of Exhibitor Groups participated: 24

Total Number of Participants: 73

Fund amount allotted per Group: Rs. 500/- (Maximum)

Name of the Judges:

- (i) Prof Samir Saha, Retd. Professor and Head, Mechanical Engineering Department, Jadavpur University, Kolkata
- (ii) Dr. Soumya Sen, Assistant Professor, A.K. Choudhury School of Information Technology, C. U., Kolkata

Special Guests:

- (i) Mr. Kanu Majumdar, Secretary, West Bengal Body Building Association, Kolkata.
- (ii) Mr. Samir Ghosh, Mr. Universe 2008 and Fitness Mentor, Kolkata.

Following departments took part in this Exhibition: (Thirteen)

Bengali (1 group), Botany (2 groups), Chemistry (2 groups), Commerce (3 groups), Computer Science (1 group), Electronics (1 group), English (1 group), Mathematics (2 groups), Physics (3 groups), Physiology (2 groups), Political Science (2 groups), Geography (2 groups), Zoology (2 groups).

Following departments did not take part in this Exhibition: (Five)

Economics, Education, Environmental Studies, History, Philosophy.

WINNERS:

1st Prize: **Botany** (Group 3) “Nanotechnology In Sports Equipments That Helps In Prevention Of Cancer”

Name of the Exhibitors: HRIDAY Home CHOWDHURY (2nd Sem), SHREYOSI DAS (2nd Sem), DEBAYAN CHAKRABORTY (2nd Sem).

2nd Prize: **Physiology** (Group 15) “Sports for All”

Name of the Exhibitors: SAYAN SAMADDAR (2nd Yr), SAYANI MITRA (2nd Yr), NILANJANA KARMAKAR (2nd Yr).

3rd Prizes: (i) **Chemistry** (Group 4) “The Chemistry Of A Football Shirt”

Name of the Exhibitors: SAYANTIK SAHA (2nd Yr), SOURAV SARDAR (2nd Yr), BALARAM GAYEN (2nd Yr).

(ii) **Mathematics** (Group 11) “The Effects of Wind and Altitude In The 400m Sprint With Various IAAF Track Geometries”

Name of the Exhibitors: SAIKAT SAMANTA (2nd Yr), AYAN KARMAKAR (2nd Yr), ANKIT HAZRA (2nd Yr).

(iii) **Physics** (Group 12) “Mobile Game”

Name of the Exhibitors: DEBASMITA BAG (2nd Yr), NABIN BISWAS (2nd Yr).

Special Prizes: (i) **English** (Group 22) “Sports In Literature”

Name of the Exhibitors: SNEHA MAITY (2nd Sem), TRINA CHAKROBORTY (2nd Sem), PRAGATI RAY (2nd Sem).

(ii) **M.Com** (Group 6) “Strategic Management of Sports Organisation”

Name of the Exhibitors: RESMI DAS (M.Com), ADITI BISWAS (M.Com).

Note: This is not a complete report. Dr. Sujay Kr. Nayek, 04/02/2019

Curriculum Vitae

I, Kanu Majumdar, would like to introduce myself to you as a former Senior National champion'84 and international sports person in powerlifting, strength lifting and body-building. Currently I am holding the position of Hon. General Secretary of West Bengal Body Building & Welfare Association and National judge of Indian Body Building Federation since 1994.

I would like to present my sports achievements before you as part of my humble request.

Arena	Award	Event	Year
International	Bronze medal	Asian powerlifting championship, Bandung, Indonesia	1984
International	Participated	World arm-wrestling championship, London, UK	1987
International	Silver medal	Asia-Oceania powerlifting championship, Melbourne, Australia	1990
International	Silver medal	Asia-Oceania powerlifting championship, Auckland, NZ	1991
International	Coach – India team	Mr. Universe Body building championship	2003 – Mumbai; 2008 – Miami, USA.
National	Gold medal	Sr. National powerlifting championship	1984
National	Gold medal	Sr. National strength-lifting championship	1986, 1987, 1988
Eastern India	Gold medal	Eastern India powerlifting championship	1980, 1982-85
Bengal	Gold medal	West Bengal powerlifting championship	1980, 1982-92

National Refree/Judge – Indian powerlifting federation (1981-92), Indian body building federation (1994-till date).

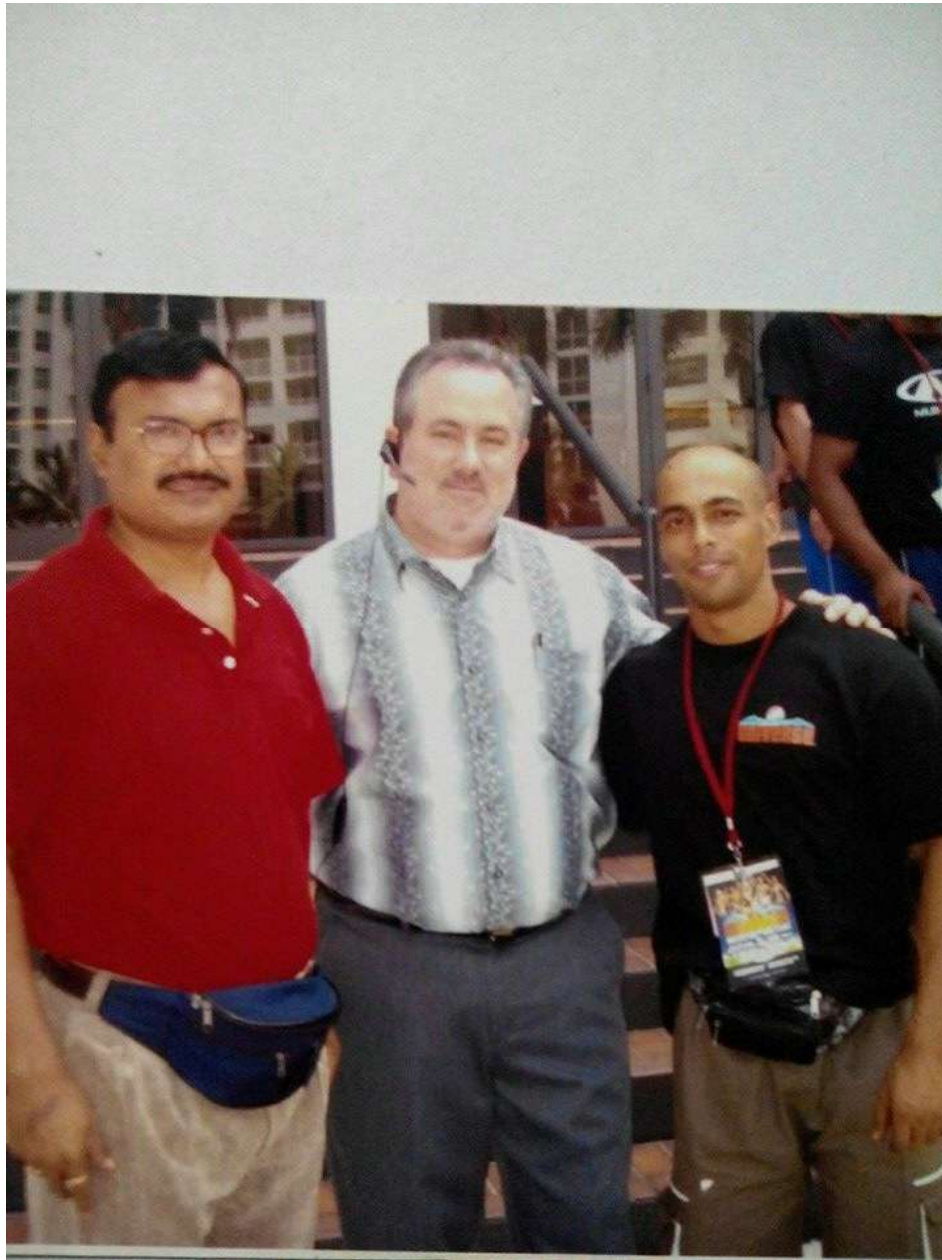
Secretary, Organizing Committee – 36th Sr. National body building championship (1996), 2nd Commonwealth body building championship (2002).

I have completed by B.Com from Shyamaprasad College under C.U. in the year 1981 and represented Ashutosh College-Shyamaprasad gymnasium in various state & national championships during 1976-81 and earned numerous laurels.

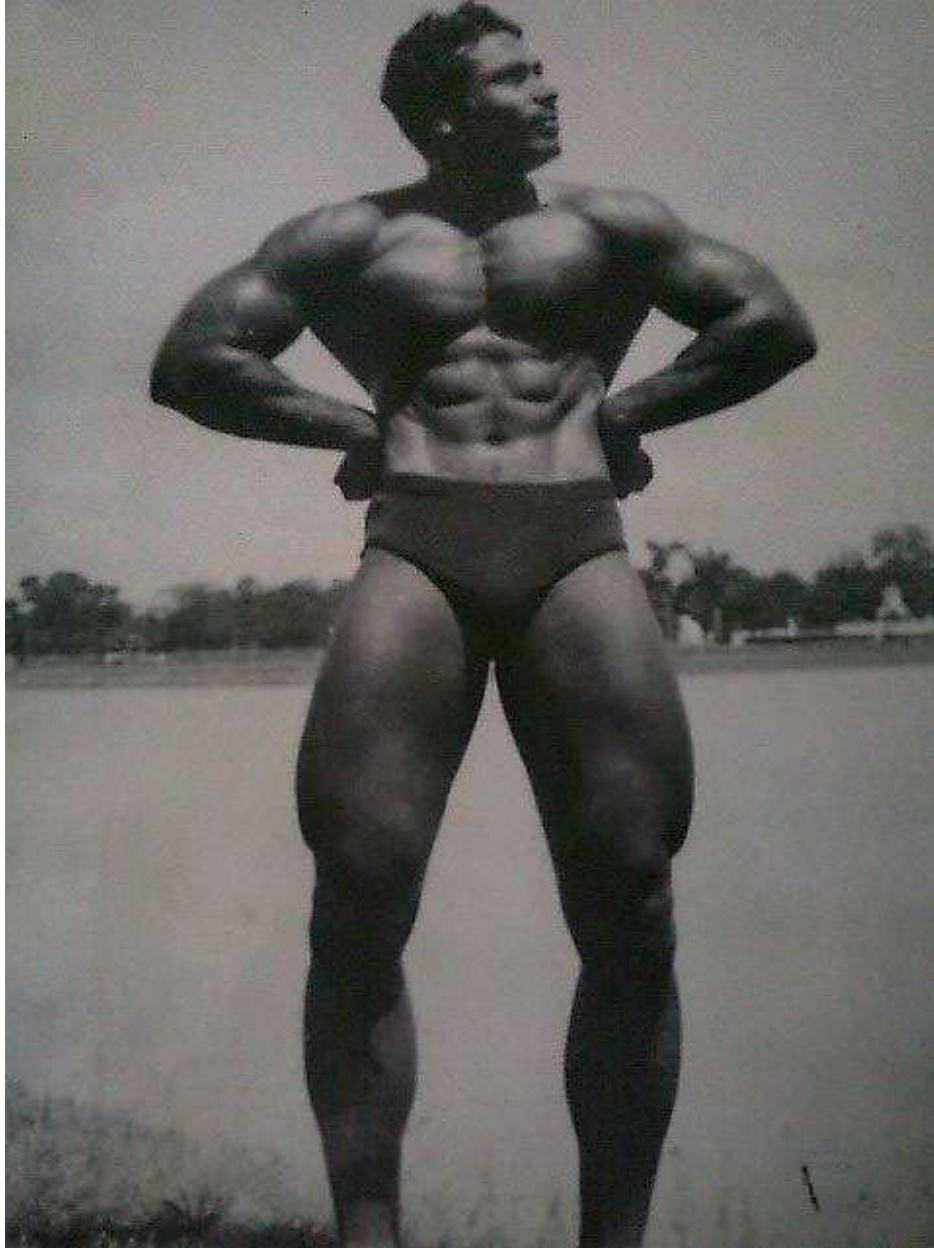
Sincerely,
Kanu Majumdar
+91 9432094391
Kanumajumdar@yahoo.co.in

SRI SAMIR GHOSH, MR. UNIVERSE 2008

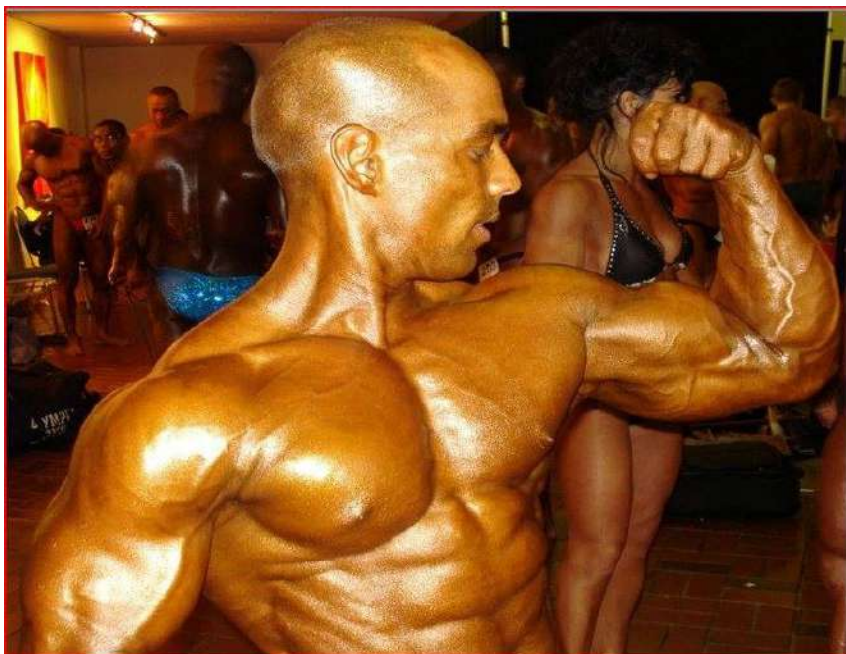




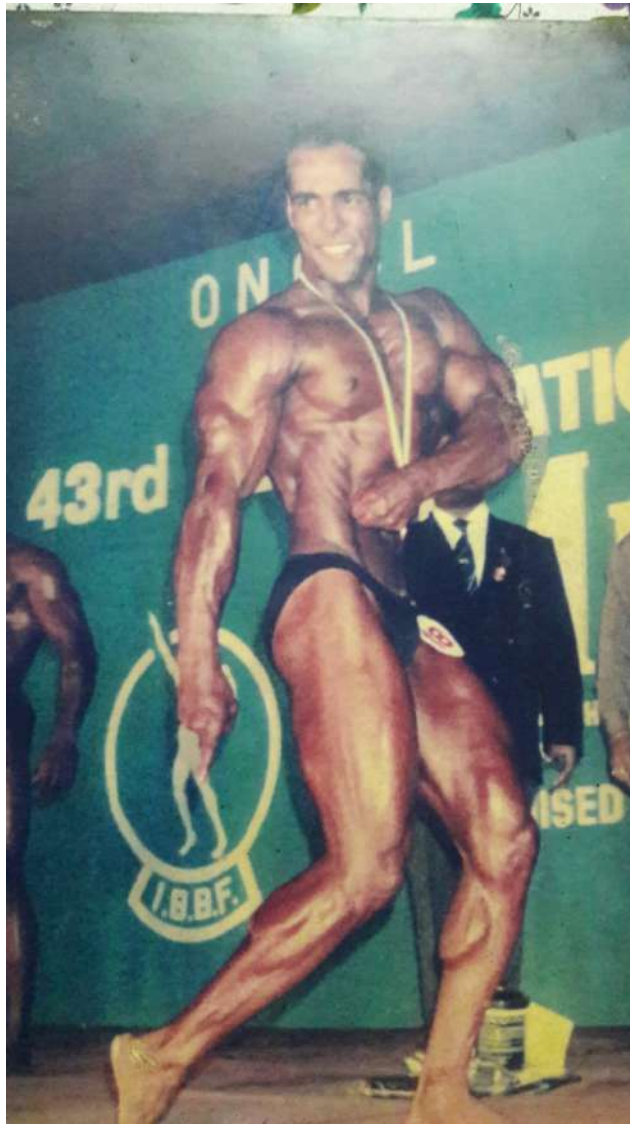
With Mr. Luis Zuwik,
President, Muscle Mania
Universe and Samir Ghosh
won the 1st place in his
bwt class, Miami,USA
,June 2008



His Sir Kamal Bhandari ,
5times MR. INDIA



Mr. Samir Ghosh is one of the leading Fitness Trainers in India. He is one of the top bodybuilders in Bengal. He represented India in many fitness championships. In the year 2008, he has won the prestigious Mr Universe Championship, 66-kg category in Miami.



He also won the title 'Mr. India' for three times, and the years are 1999, 2004 and 2008. He also achieved second position in Mr. Asia Championship in 1999 which was held in Taiwan.



He is associated with many renowned fitness studios like Adrenaline Rush Gym and Fitness Kolkata, Gold's Gym Kolkata and many more.

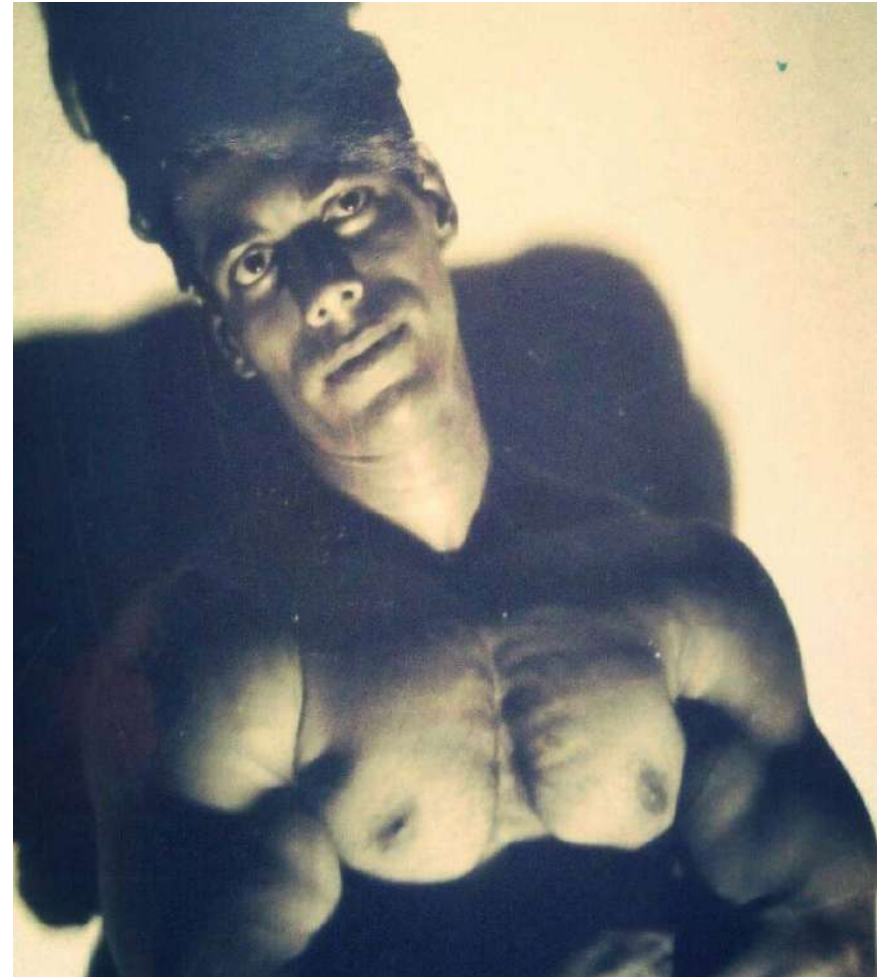






He is the trainer of
Ranjit Mandal, Jr Mr.
India, Bhutto Khan, Sr
Mr. India, Afroz Khan,
International Fitness
Model, Europa Bhoumik,
Women Bodybuilder





He started his journey as from a humble background and now has been able to make a name for himself in the fitness industry



NETAJI NAGAR DAY COLLEGE
Annual Exhibition -2019

Name: _____
Department: _____
Year: _____
Position: _____
Title of the Topic: _____

Annual Exhibition - 2019
**Sports and Education:
An Interdisciplinary
Approach**
Netaji Nagar Day College



NETAJI NAGAR DAY COLLEGE
Annual Exhibition -2019

Name: _____
Department: _____
Year: _____
Position: _____
Title of the Topic: _____

Annual Exhibition - 2019
**Sports and Education:
An Interdisciplinary
Approach**
Netaji Nagar Day College



NETAJI NAGAR DAY COLLEGE
Annual Exhibition -2019

Name: _____
Department: _____
Year: _____
Position: _____
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Annual Exhibition - 2019
**Sports and Education:
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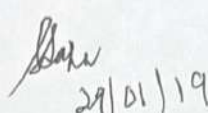
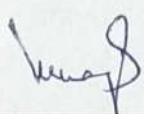

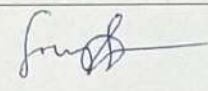
NETAJI NAGAR DAY COLLEGE
Annual Exhibition -2019

Name: _____
Department: _____
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Annual Exhibition - 2019
**Sports and Education:
An Interdisciplinary
Approach**
Netaji Nagar Day College

Annual Exhibition-2019
"Sports and Education: An Interdisciplinary Approach"
January 29th & 30th, 2019
Netaji Nagar Day College

Invited Guests:

Sl.No.	Name & Designation	Signature	Date
1	Prof. Samir Kumar Saha Retd. Professor and Head, Mechanical Engineering Department, Jadavpur University, Kolkata	 29/01/19	29/01/19
2	Mr. Kanu Majumdar Secretary, West Bengal Body Building Association, Kolkata.		29/01/19
3	Mr. Samir Ghosh Mr. Universe 2008 and Fitness Mentor, Kolkata.		29/01/19
4	Dr. Soumya Sen, Assistant Professor, A.K. Choudhury School of Information Technology, C. U., Kolkata		29 ³⁰ /01/19
5			
6			
7			
8			
9			

Annual Exhibition-2019
 "Sports and Education: An Interdisciplinary Approach"
 January 29th & 30th, 2019
 Netaji Nagar Day College

Sl. No.	Name	Signature	Year/Sem	Department
1 ✓	ISHIKA GUHA ISHIKA GUHA	Ishika Guha	2ND SEM	BENGALI
2 ✓	MOUMITA KARMAKAR	Moumita Karmakar	2ND SEM	
3 ✓	NILABJA MUKHERJEE	Nilabja Mukherjee	2ND SEM	
4 ✓	SADDAM SHAIKH SADDAM SEKH	Saddam Sekh	2ND SEM	
5 ✓	DIYA BHATTACHARYA	Diya Bhattacharya	2ND SEM	BOTANY Bill submitted and paid (2)
6 ✓	BIDHAN CHANDRA BISWAS	Bidhan Ch. Biswas	2ND SEM	
7 ✓	SAYAN NANDY	Sayan Nandy.	2ND SEM	
8 ✓	HRIDAY CHOWDHURY HRIDAY HOME CHOWDHURY	Hriday Home Chowdhury	2ND SEM	
9 ✓	SHREYOSI DAS	Shreyosi Das.	2ND SEM	
10 ✓	DEBAYAN CHAKRABORTY	Debayan Chakraborty	2ND SEM	
11 ✓	SAYANTIK SAHA	Syantik Saha.	2ND YEAR	CHEMISTRY Bill submitted and paid (2)
12	SOURAV SARDAR	Sourav Sandan	2ND YEAR	
13 ✓	BALARAM GAYEN	Balaram Gayen	2ND YEAR	
14 ✓	PRITAM CHAKRABARTY CHAKRABORTY	Pritam Chakraborty	2ND SEM	
15 ✓	SANTANU GHOSH	Santanu Ghosh.	2ND SEM	
16 ✓	TARAK MONDAL	Tarak Mondal.	2ND SEM	
17 ✓	RESMI DAS RESMI RESHMI DAS	Reshmi Das 29.1.2018	PART II, M.COM.	COMMERCE Bill submitted & paid (3)
18 ✓	ADITI BISWAS	Aditi Biswas 29.1.2018	PART II, M.COM.	
19 ✓	NIKKI KUMARI	ABSENT ON 29/1/19 ABSENT ON 30/1/19	PART II, M.COM.	
20 ✓	TANIYA SYAM	Taniya Syam	PART II, M.COM.	
21 ✓	SUBHAJEET / SUBHJIT BHATTACHARJEE BHATTACHARYA	Subhjit Bhattacharya	PART II, M.COM.	
22 ✓	MANISHA UPADHYAY	Manisha Upadhyay	PART II, M.COM.	
23 ✓	SRITAMA GANGULY	Sritama Ganguly	B.COM	
24 ✓	RIMA BANIK	Rima Banik	B.COM	
25 ✓	ADITYA DAS	Aditya Das	B.COM	

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Sl. No.	Name	Signature	Year/Sem	Department
✓26	ARGHADEEP PAUL	Arghadeep Paul	2 ND SEM	ELECTRONICS
✓27	SUBHAJIT CHATTERJEE	Subhajit Chatterjee	2 ND SEM	
✓28	SOMENATH MUKHERJEE	Somenath Mukherjee	3 RD YEAR	
✓29	SUSANTA SAHA SUSHANTA DAS	Sushanta Das.	2 ND YEAR	MATHEMATICS
✓30	NILAY GHOSH	Nilay Ghosh.	2 ND YEAR	
✓31	SUVO SAHA	Suvo Saha	2 ND YR	
✓32	BIKRAM BEHERA	Bikram Behera	2 ND SEM	
✓33	SAIKAT SAMANTA	Saikat Samanta	2 ND YR	
✓34	AYAN KARMAKAR	ABSENT ON 29/1/19 Present on 30/1/19	2 ND YR	
✓35	ANKIT HAZRA	Ankit Hazra	2 ND YR	
✓36	DEBASMITA BAG	Debasmita Bag.	2 ND YR	
✓37	NABIN BISWAS	Nabin Biswas	2 ND YEAR	PHYSICS
✓38	ANKIT DUTTA	Ankit Dutta	3 RD YR	
✓39	ASUTOSH KUMAR	Ashutosh Kumar	3 RD YR	
✓40	TRIASHA DEBNATH	ABSENT ON 29/1/19 ABSENT ON 30/1/19	2 ND SEM	
✓41	APAROOPA DAS	ABSENT ON 29/1/19 DD	2 ND SEM	
✓42	SAYAN SAMADDAR	Sayan Samaddar	3 RD YR	PHYSIOLOGY
✓43	SAYANI MITRA	Sayani Mitra	3 RD YR	
✓44	NILANJANA KARMAKAR	Nilanjana KarmaKar	3 RD YR	
✓45	MAHASVETA DUTTA	Mahasveta Dutta	2 ND YR	
✓46	DEBOPRIYA DAS	Debopriya Das	2 ND YR	
✓47	DIPANKAR JHA JHA	Dipankar Jha	2 ND YR	(2)
✓48	LAXMI KAR	Laxmi Kar	2 ND SEM	POLITICAL SCIENCE
✓49	NAVANITA MONDAL NABANITA	Nabanita Mondal	2 ND SEM	
✓50	NARAYAN MONDAL	Narayan Mondal	2 ND SEM	
✓51	SUSMITA BANERJEE	Susmita Banerjee	2 ND SEM	
✓52	SANATAN NASHKAR NASKAR	Sanatan Naskar	2 ND SEM	
✓53	TAMA RANI GHOSH	Tamer Rani Ghosh	2 ND SEM	BiU submitted and paid (2)

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Sl. No.	Name	Signature	Year/Sem	Department
✓54	NILANJANA BHATTACHARYYA	Nilanjana Bhattacharyya.	SEM I	ZOOLOGY Bill submitted and paid (2)
✓55	SUBHADIP GHOSH	Subhadip Ghosh	SEM I	
✓56	SHAYAN KR. NASKAR	Shayan Kr. Naskar	SEM I	
✓57	SOUMEN MONDAL	Soumen Mondal	2ND YR	
✓58	SAMPA DAS	Sampa Das	2ND YR	
✓59	SWAGATA SEAL	Swagata Seal	2ND YR	
✓60	SAYANI DAS	Sayani Das	2 ND YR	GEOGRAPHY
✓61	ALOKE MANDAL	Aloke Mandal	2 ND YR	
✓62	GOURAV DAS	Gourav Das.	2 ND YR	
✓63	SHUMIT DAS	Shumit Das	2 ND YR	
✓64	SUFAL PAL CHOWDHURY	Sufal Pal Chowdhury.	3 RD YR	
✓65	OISHIKA BANERJEE	Oishika Banerjee	3 RD YR	
✓66	KOUSTABH SEN	Koustabh Sen	3 RD YR	ENGLISH
✓67	ANKURITA GHOSH	Ankurita Ghosh.	3 RD YR	
✓68	SNEHA (Maity) MAITY	Sneha Maity	2 ND SEM	
✓69	CHANDRILLA TRINA CHAKRABORTY cc1 (English)	Trina Chakraborty	2 ND SEM	
✓70	PRAGATI RAY	Pragati Ray	2 ND SEM	
✓71	DIPSHA GHOSH	Dipsha Ghosh	2 ND YR	
✓72	NABANITA NASKAR	Nabanita Naskar.	2 ND YR	COMP. SC.
✓73	SRAYAN GUHA THAKURTA	Srayan Guha Thakurta	2 ND YR	
✓74	SUBHANKAR BOSE	Subhankar Bose	2 ND YR	
✓75	SAYAN ROY	Sayan Roy	2 ND YR	
✓76	SAGAR NATH	Sagar Nath.	2 ND YR	PHYSICS

Total Exhibitors → 72
 @ 29/1/19

Total Exhibitors → 73
 30/1/19

Annual Exhibition-2019

TIFFIN COUPON

DATE: 29th Jan, 2019

Annual Exhibition-2019

TIFFIN COUPON

DATE: 29th Jan, 2019

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Netaji Nagar Day College

Sl. No.	Name	Year/Sem	Department	Title of the Topic
1	ISIKA GUHA		BENGALI	SAHITYO O KHELA
	MOUMITA KARMAKAR			
	NILABJA MUKHERJEE			
	SADDAM SHAIKH			
2	DIYA BHATTACHARYA	2ND SEM	BOTANY	FOOD, HEALTH, SPORTS AND EDUCATION
	BIDHAN CHANDRA BISWAS	2ND SEM		
	SAYAN NANDY	2ND SEM		
3	HRIDAY CHOWDHURY	2ND SEM	BOTANY	NANOTECHNOLOGY IN SPORTS EQUIPMENTS THAT HELPS IN PREVENTION OF CANCER.
	SHREYOSI DAS	2ND SEM		
	DEBAYAN CHAKRABORTY	2ND SEM		
4	SAYANTIK SAHA	2ND YEAR	CHEMISTRY	THE CHEMISTRY OF A FOOTBALL SHIRT
	SOURAV SARDAR	2ND YEAR		
	BALARAM GAYEN	2ND YEAR		
5	PRITAM CHAKRABARTY	2ND SEM	CHEMISTRY	ROLE OF MEDICINES IN SPORTS (STEROID AND ASPIRIN)
	SANTANU GHOSH	2ND SEM		
	TARAK MONDAL	2ND SEM		
6	RESMI DAS	PART II, M.COM.	COMMERCE	STRATEGIC MANAGEMENT OF SPORTS ORGANISATION
	ADITI BISWAS	PART II, M.COM.		
	NIKKI KUMARI	PART II, M.COM.		
7	TANIYA SYAM	PART II, M.COM.	COMMERCE	SPORTS MARKETING
	SUBHAJEET BHATTACHARJEE	PART II, M.COM.		
	MANISHA UPADHYAY	PART II, M.COM.		
8	SRITAMA GANGULY	B.COM	COMMERCE	SPORTS INDUSTRIES AND EXPORT IN INDIA
	RIMA BANIK	B.COM		
	ADITYA DAS	B.COM		

Annual Exhibition-2019
“Sports and Education: An Interdisciplinary Approach”
January 29th & 30th, 2019
Netaji Nagar Day College

Sl. No.	Name	Year/Sem	Department	Title of the Topic
9	ARGHADEEP PAUL	2 ND SEM	ELECTRONICS	APPLICATION OF ELECTRONIC TECHNOLOGY IN SPORTS
	SUBHAJIT CHATTERJEE	2 ND SEM		
	SOMENATH MUKHERJEE	3 RD YR		
10	SUSANTA SAHA	2ND YEAR	MATHEMATICS	How to hit a successful Goal in Rugby
	NILAY GHOSH	2ND YEAR		
	SUVO SAHA	2ND YR		
	BIKRAM BEHERA	2ND SEM		
11	SAIKAT SAMANTA	2ND YR		The Effects of Wind and Altitude in the 400m Sprint with Various IAAF Track Geometries
	AYAN KARMAKAR	2ND YR		
	ANKIT HAZRA	2ND YR		
12	DEBASMITA BAG	2ND YR	PHYSICS	MOBILE GAME
	NABIN BISWAS	2ND YEAR		
13	ANKIT DUTTA	3RD YR		SPORTS & ATHLETICS
	ASUTOSH KUMAR	3RD YR		
	TRIASHA DEBNATH	2ND SEM		
	APAROOPA DAS	2ND SEM		
14	SAYAN SAMADDAR	3 RD YR	PHYSIOLOGY	SPORTS FOR ALL
	SAYANI MITRA	3 RD YR		
	NILANJANA KARMAKAR	3 RD YR		
15	MAHASVETA DUTTA	2 ND YR		HOW TO BE A FIT PERSON
	DEBOPRIYA DAS	2 ND YR		
	DIPANKAR JAH	2 ND YR		
16	LAXMI KAR	2 ND SEM	POLITICAL SCIENCE	“KHELAI RAJNAITIK PROVAB”
	NAVANITA MONDAL	2 ND SEM		
	NARAYAN MONDAL	2 ND SEM		
17	SUSMITA BANERJEE	2 ND SEM		“KHELAI ANTORJATIK PROVAB O SOUVRATITWO”
	SANATAN NASHKAR	2 ND SEM		
	TAMA RANI GHOSH	2 ND SEM		
18	NILANJANA BHATTACHARYYA	SEM I	ZOOLOGY	PLAYFULNESS OF ELEPHANT
	SUBHADIP GHOSH	SEM I		
	SHAYAN KR KUMAR NASKAR	SEM I		
19	SOUMEN MONDAL	2ND YR GEN		RUN...RUN...RUN ...
	SAMPA DAS	2ND YR GEN		
	SWAGATA SEAL	2ND YR GEN		

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Sl. No.	Name	Year/Sem	Department	Title of the Topic
20	SAYANI DAS	2 ND YR	GEOGRAPHY	“KRIRAH SHIKSHAR ANGA”
	ALOKE MANDAL	2 ND YR		
	GOURAV DAS	2 ND YR		
	SHUMIT DAS	2 ND YR		
21	SUFAL PAL CHOWDHURY	3 RD YR		“SHIKSHAR APARIHARYA ANGA PRAKRITI”
	OISHIKA BANERJEE	3 RD YR		
	KOUSTABH SEN	3 RD YR		
	ANKURITA GHOSH	3 RD YR		
22	SNEHA MAITY	2 ND SEM	ENGLISH	SPORTS IN LITERATURE
	TRINA CHAKROBORTY	2 ND SEM		
	PRAGATI RAY	2 ND SEM		
23	DIPSHA GHOSH	2 ND YR	COMPUTER SCIENCE	BIONIC ARM IN SPORTS
	NABANITA NASKAR	2 ND YR		
	SRAYAN GUHA THAKURTA	2 ND YR		
	SUBHANKAR BOSE	2 ND YR		
24	SAYAN ROY	2 ND YR	PHYSICS	TECHNOLOGY IMPACT ON SPORTS
	SAGAR NATH	2 ND YR		

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How to hit a successful Goal in Rugby

Susanta Das¹, Suvo Saha¹, Nilay Ghosh¹ and Bikram Behera²
Department of Mathematics * Netaji Nagar Day College
¹Second Year, ²Second Semester, B.Sc. Hons.

Situation: Before a record crowd of 100963, third ranked California faced sixth ranked Ohio State in the Rose Bowl on January 2, 1950. Only 1.55 minutes time was remained in the clock and two teams were dead-locked in a 14-14 tie. Ohio State's drive for the goal had stalled at the California 6-yard line; it was now fourth down. Ohio State coach Wes Fesler decided to try for a field goal to take the lead. However, confusion with substitutes caused Ohio State to draw a 5-yard delay-of-game penalty. The field game attempt was successful despite this seemingly foolish mistake and Ohio State went on to win the game 17-14.

Fesler's Post Game Comment:

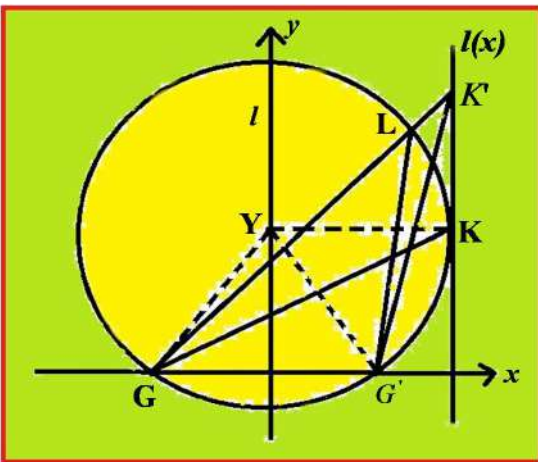
He deliberately sent in two substitutes just before the crucial field goal to draw a five-yard penalty and push the ball back from California's six-yard line to the eleven, "to give us a better goal".

Questions:

1. Did Fesler make the right call?
2. Is it really possible to improve the chances the scoring a field goal by backing up?
3. What is the factor affecting a kicker's chances of success?

The Optical Kicking Angle and Locus:

Suppose the distance separating the two goal posts G and G' at one end of the field is $2g$. Let l denote the perpendicular bisector of the line segment $G'G$, and $l(x)$ the line parallel to l at a distance x . If $x < g$ then the closer a kicker on $l(x)$ is to the line of the goalposts, the larger is the angle subtended by the goalposts. But for $x \geq g$ the point K on $l(x)$ at which the goalposts subtended the maximum possible angle is characterized by the condition $\overline{KY} = \overline{YG}$, where Y is the closest point on l to K and G is the goalpost nearest $l(x)$.



Corollary:

In the Cartesian co-ordinate system with the line through the two goal posts as x-axis and the line l as y-axis, the locus of points (x, y) at which the angle subtended by the goalposts is maximum is the portion of the hyperbola $x^2/g^2 - y^2/g^2 = 1$ above the x-axis.

RULES

1. Standard dimensions and markings of a rugby league field.
2. The longer boundary lines are touch lines, while the shorter boundary lines are dead ball lines. The touch lines and dead ball lines are out of play.
3. Each end of the field is a goal line or try-line; they are 100 meters (109.4 yards) apart.
4. Play will occur within the field of play, this is the area bounded by, but not including, the touch lines and goal lines.
5. Between the goal lines, broken lines run parallel to each touch line at 10 and 20 meters from touch.
6. On each goal line are two goal posts 5.5 metres apart connected by a cross bar 3 metres from the ground. Each goal post is 16 metres in height.



A *try* is a way of scoring points in rugby union and rugby league football. A try is scored by grounding the ball (the ball must be touching the player when coming into contact with the ground) in the opposition's in-goal area (on or behind the goal line). Rugby union and league differ slightly in defining 'grounding the ball' and the 'in-goal' area.

Important Notes:

In the game of Rugby, after a try the scoring team attempts a kick for extra points. The ball must be kicked from directly behind the place where the try was scored. The kicker can choose the distance but no lateral movement is allowed. Actually the kicker's best choices lie on the hyperbola $x^2/g^2 - y^2/g^2 = 1$. Instead of choosing points on the hyperbola, a player may also choose points on the asymptotes also. Because it is relatively easy to in the midst of the game to estimate these 45° angle lines through the middle of the goal.

Conclusion:

We have discussed here about the optimal kicking angle and locus of the point from which one rugby player can kick the ball towards the goal successfully. In 1950, Coach Fesler did not know the actual reason behind the kicker's success, but there was the application of Mathematics.

References:

Daniel C Isaken, 'How to kick a field goal'; A.Coxford, D.Hirschhorn and Z.Usiskin, The University of Chicago Math Project, Geometry, II 1991, pp746; Gladwin Hill, Ohio State field goal in last two minutes beats California in Rose bowl, New York Times, Jan 3, 1950, pp 26; https://en.wikipedia.org/wiki/Rugby_league_playing_field; <https://www.dsr.wa.gov.au>

The Effects of Wind and Altitude in the 400m Sprint With Various IAAF Track Geometries

Saikat Samanta, Ayan Karmakar and Ankit Hazra
Department of Mathematics * Netaji Nagar Day College
2nd Year, B.Sc. Hons

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Introduction

In a standard International Association of Athletics Federations (IAAF) track, there are eight lanes, and a maximum of eight runners in a race. Although each IAAF track has the same dimensions, questions have arisen as to the effect that wind and altitude have on the runner's performances, regardless of the event. Several models have been created to describe their effects on the 100m sprint, the 200m sprint, and the 4 x 100m relay. Modeling these performances proved to be relatively simple, but until 2004 no one had ever tried modeling a 400m sprint because of the difficulty of accounting for two straights and two bends. In 2004 Mike Quinn published a model for the 400m sprint, using data from the 1999 World Athletics Championships. It (Quinn, 2004) is the basis for our model. Physical intuition suggests that a constant wind blowing across a closed loop track would have a detrimental effect on a runner's time regardless of the wind direction.

Objective:

We have studied the effects that wind and altitude have on the 400m sprint when run on various IAAF track geometries. We validate Quinn's ODE model using data from the 1999 World Athletics Championships. The model is based on Newton's Law for the energy balance of a runner. We find that the effect of altitude is significant but of little consequence with respect to differences in track geometry.

Hill-Keller model:

$$\frac{dv(t)}{dt} = f(t) - \frac{1}{\tau}v,$$

Where $v(t)$ is the runner's velocity at time t in the direction of motion, and $f(t)$ is the runner's total propulsive force per unit mass, which drives the runner forward and overcomes both the internal and external resistive force $\frac{v}{\tau}$ per unit mass

(Keller, 1973). Keller assumed that the resistance is a linear function of v and that the damping coefficient τ is a constant.

Effect of Winds

Another parameter in Quinn's model is v_w , the wind velocity relative to the ground and tangent to the path of the runner. It is different in each of the four segments of the track, and depends on the wind velocity and the relative wind direction, which will vary continuously as the runners progress around the track.

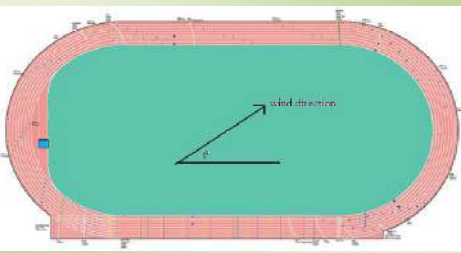
In Quinn's 2004 model, he chose the maximum force F , the decay rate β , and the resistive force τ to fit the available 400m data from Ferro's 2001 paper. The data provided in Ferro's analysis of the 400m event were produced using twelve analog and digital video cameras. Quinn was able to fit his model to the data by setting $F = 7.91 \text{ m/s}^2$, $\beta = 6 \times 10^{-3} \text{ 1/s}$, and $\tau = 1.45 \text{ s}$ (for men).

Distance (m)	Actual Time (s)	Quinn's Model Time (s)
50	5.99	6.07
100	10.95	10.99
150	15.95	15.93
200	21.07	20.98
250	26.27	26.29
300	31.51	31.75
350	37.03	37.33
400	43.03	43.03
Finish time (s)	43.18	43.18

Altitude and the Propulsive Force:

We now consider the propulsive force. Although the drag coefficient is not affected by an increase in altitude, and variations in the gravitational acceleration due to altitude are negligible (Behncke, 1994), McArdle (2007) observed that increasing altitude forces a drop in the partial pressure of oxygen, reducing the percentage of oxygen saturation in the blood. This in turn decreases the oxygen supplied to the runner's muscles by the aerobic energy system. The oxygen saturation reduction is relatively small for altitudes less than 3000 meters, but still has a detrimental effect on athletic performances (Quinn, 2004). The conclusion is that the aerobic energy system contributes significantly to the energy supply during long sprints and middle distance running.

Reference: M. D. Quinn, The effects of wind and altitude in the 200-m sprint, *Journal of Applied Biomechanics* 19 (2003) 49-59.



To
The Principal
Netaji Nagar Day College
Kolkata- 700092

Date: 10.12.2018

Sub: Proposal to Organise Annual Exhibition in the college

Respected Madam,

We are pleased to inform you that the Science and Nature Club of this college is willing to organize a science exhibition in the college like previous years. A meeting of this sub-committee for this purpose will be called soon after getting a favorable response from your end. Please give us the necessary permission to organize this exhibition.

Anticipating your heartiest cooperation and support to organize this event smoothly.

Thanking you

Yours truly,

*Please proceed for the
necessary arrangements.*

*ABgash
10.12.18*

Sucharita Mitra (Sarkar)
Dr. Sucharita Mitra (Sarkar) 10/12/18

Convener



NETAJI NAGAR DAY COLLEGE

Phone : 2411-5301

(Under Graduate & Post Graduate Institute)

Affiliated to University of Calcutta

Accredited by NAAC (B++)

170/436, N. S. C. BOSE ROAD
REGENT ESTATE, KOLKATA - 700 092

Ref. No

Date 14/12/2018

Notice

A meeting of the Annual Exhibition Committee will be held in the Principal's room on 20th Dec, 2018 (Thursday) at ~~12 noon~~ ^{3 pm}. The members are requested to attend the meeting.

Agenda:

1. To finalize the title of the exhibition
2. To fix the dates and time of the exhibition
3. To discuss the names of the speakers for Inaugural and Valedictory session
4. To distribute the duties among the members
4. Miscellaneous, if any

Members:

Dr. Chanchal Guha Roy	Dr. Surajit De	Dr. Sucharita Mitra(Sarkar)	Dr. Krishna Gangopadhyay
Dr. Satarupa Sarkar	Sri Probhas Mondal	Smt. Sanjukta Pan	Dr. Sayantani Das
Dr. Barnali Dutta	Smt Ishita Nag <i>Ishita</i>	Sri Nadim Haider	Smt Mitra Tithi Dey
Sri Pitambar Das	Smt Mita Karmakar	Dr Jayeeta Paul	Mousumi Pramanick
Sri Suman Patra	Smt Malabi Chakraborty	Dr. Bhumika Pradhan	Smt Ivy Siddhanta
Dr. Ujjwal Kr. Pahari	Dr Shantanu Ganguly	Sri Santanu Pan	Sri Puspendu Roy

Staff Members:

Sri Biplab Das	Sri Amar Chatui	Smt Baishali Mukherjee
Sri Ratan P. Harijan	Sri Ajoy Kr. Chowrasia	Sri Tarak Das
Sri Dilip Adhikary		

Student Member: Sri Surya Kanta Chowdhury (G.S.)

Sonali Banerjee Jash
Dr. Sonali Banerjee Jash
Principal

Sujay Kr. Nayek & Satarupa Sarkar
Dr. Sujay Kr. Nayek & Dr. Satarupa Sarkar
Jt. Convener(s)

Members present in the Science and Nature Sub-
committee meeting held on 14.12.18 (Friday)
at 1-15 PM at Principals Room:-

1. Subhash 14/12/18
2. C. G. Roy
3. Probhas Mondal, 14/12/18.
4. Barnali Dutta
5. Anjany Dr. Nayak
6. ~~Dr. Nayak~~ 14/12/18
7. Ujjwal Kumar Bahari 14/12/18
8. Pitarambar DNB 14/12/18
8. Sushant khat 14/12/18
9. Krishna Gangopadhyay 14/12/18
10. Satarupa Sarker 14/12/18
11. Gita Mondal 14/12/18

Resolution of the meeting of Science and Nature sub committee held on 14.12.18 at 1.15 PM at Principal's room:-

1. Topic Discussion about the theme of the exhibition.
Sports → Prof. Sujay Nayek suggested the theme in broad aspect - 'Sports'. The actual title of the theme based on broad aspect - 'Sports' yet to be finalized in the next meeting.
2. End of January. Tentative dates of the exhibition is scheduled to be - on 17th & 18th January, 2019.
3. CCR suggests to co-opt at least one faculty member of every department to form the exhibition subcommittee. Following members are co-opted for exhibition sub committee.

Bot - Dr. Bhumnika Pradhan
 Physiology - Prof. Nazim Haider
 Hist - IS Prof. Ery Siddhanta Tarak, Baishali, Ajoy
 Prof. Shankamu Ganguly Dileep, Ratan.
 Eng - SA SNG Student - G.S.
 Prof. Ishita Nag
 Ew - (IN) Beng - AGT Dr. Anjana Guha-Thakurata
 Geo - SS/MP Prof. Mousumi Pramanik
 Edu - MK Prof. Mita Karmakar
 Phil - MC/CR Prof. Malabi Chakraborty
 ENVS. - SP Prof. Sanjukta Pan
 Prof. Jayeta Paul
 Com. - JP Prof. Mitratilathi Day
 Comp Sc. - MD
 Pol Sc - AR
 Convener of the upcoming annual exhibition are selected by the house. The names of the convener are Prof. Sujay Nayek, Prof. Sabarupa Sarkar.

4. Budget - As (previous years) for approved in Finance sub committee.
(for Project Cost - Rs 500/-)



NETAJI NAGAR DAY COLLEGE

(Under Graduate & Post Graduate Institute)

Affiliated to University of Calcutta

Accredited by NAAC (B++)

170/436, N. S. C. BOSE ROAD

REGENT ESTATE, KOLKATA - 700 092

Ref. No

Date 08/1/19.....

Notice

A meeting of the Annual Exhibition Committee will be held in the Principal's room on 11th Jan, 2019 (Friday) at 1 pm. The members are requested to attend the meeting.

Agenda:

1. To discuss the names of the speakers for Inaugural and Valedictory session
2. To select the structure of mementos
3. To discuss about the logo of annual exhibition
4. Miscellaneous, if any

Members:

Dr. Chanchal Guha Roy	Dr. Surajit De	Dr. Sucharita Mitra(Sarkar)	Dr. Krishna Gangopadhyay
Dr. Satarupa Sarkar	Sri Probhas Mondal	Smt. Sanjukta Pan	Dr. Sayantani Das
Dr. Barnali Dutta	Smt Ishita Nag	Sri Nadim Haider	Smt Mitra Tithi Dey
Sri Pitambar Das	Smt Mita Karmakar	Dr Jayeeta Paul	Mousumi Pramanick
Sri Suman Patra	Smt Malabi Chakraborty	Dr. Bhumika Pradhan	Smt Ivy Siddhanta
Dr. Ujjwal Kr. Pahari	Dr Shantanu Ganguly	Sri Santanu Pan	Sri Puspendu Roy

Staff Members:

Sri Biplab Das	Sri Amar Chatui	Smt Baishali Mukherjee
Sri Ratan P. Harijan	Sri Ajoy Kr. Chowrasia	Sri Tarak Das
Sri Dilip Adhikary		

Student Member: Sri Surya Kanta Chowdhury (G.S.)

SB Jash
Dr. Sonali Banerjee Jash
Principal

Sujay Kr. Nayek
Dr. Sujay Kr. Nayek & Dr. Satarupa Sarkar
Jt. Convener(s)
Annual Exhibition-2019

Annual Exhibition - 2019

Date: 11/01/19

Netaji Nagar Day College

Meeting of Annual Exhibition Committee

Members:

1.

2.

3. Subal Goh Roy 11/1/19

4. Anjan Kr. Xmyen 11/1/19

5. Jayeeta Paul 11/1/19

6. Sayantini Das 11/1/19

7. Bhimika Brao fan 11/01/2019

8. Nadim Haider 11/01/2019

9. Barnali Dutta 11/01/2019

10. Trita Nag 11/01/2019

11. Krishna Gangopadhyay 11/01/19

12. Santanu Pan 11/01/19

13. Probbes Mondal 11/01/19

14. Santanu Ganguly

15. Senya Kanta chowdhury 11/01/19

16. Puspendu Roy 11.01.19

17. Mitra Titu Day 11/01/19

1. Discussion about Mementos

— Memento has been finalized by all the present members. Each of the mementos cost Rs. 250/-.

Memento shall be presented to the following members —

- | | |
|--|------------------|
| (1) Prof. Samir Saha |] Judges. |
| (2) Prof. Soumya Sen | |
| (3) Prof. Souali Banerjee Tash - Principal |] Special Guest. |
| (4) Mr. Kanu Mazumdar | |
| (5) Mr. Samir Ghosh. | |

2. (6) GB Members
(7) GB President

(2) Guest speakers and Judges are finalized by all members.

(3) Discussion about LOGO —

— Prof. Sujay Nayek designed two logos. One of them is selected by all members (without any red boundary).

— Logo attachment to the Memento has been finalized.

— Prof. Nadeem Haider has been assigned to bring the Mementos.

- ④ Number of volunteers will be fixed to 20 persons.

Duties:

- ① Emergency situation
 - ② Student and guests control.
 - ③ Decoration help.
 - ④ Flex Hanging.
 - ⑤ Tiffin Distribution.
- ⑤ Surya will ask about lamp lit from Decorators.
- ⑥ Will have to buy one jar of Eclair for guest students.
- ⑦ flower stick — 6 (^{for two} ~~first~~ days)
- ⑧ Prof. Nadeem Haider will have to buy two ~~bat~~ badge for judges.
- ⑨ Next Meeting Date: 22nd Jan, 2019, Time → 2 p.m.
- ⑩