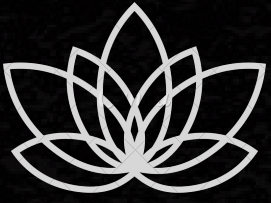


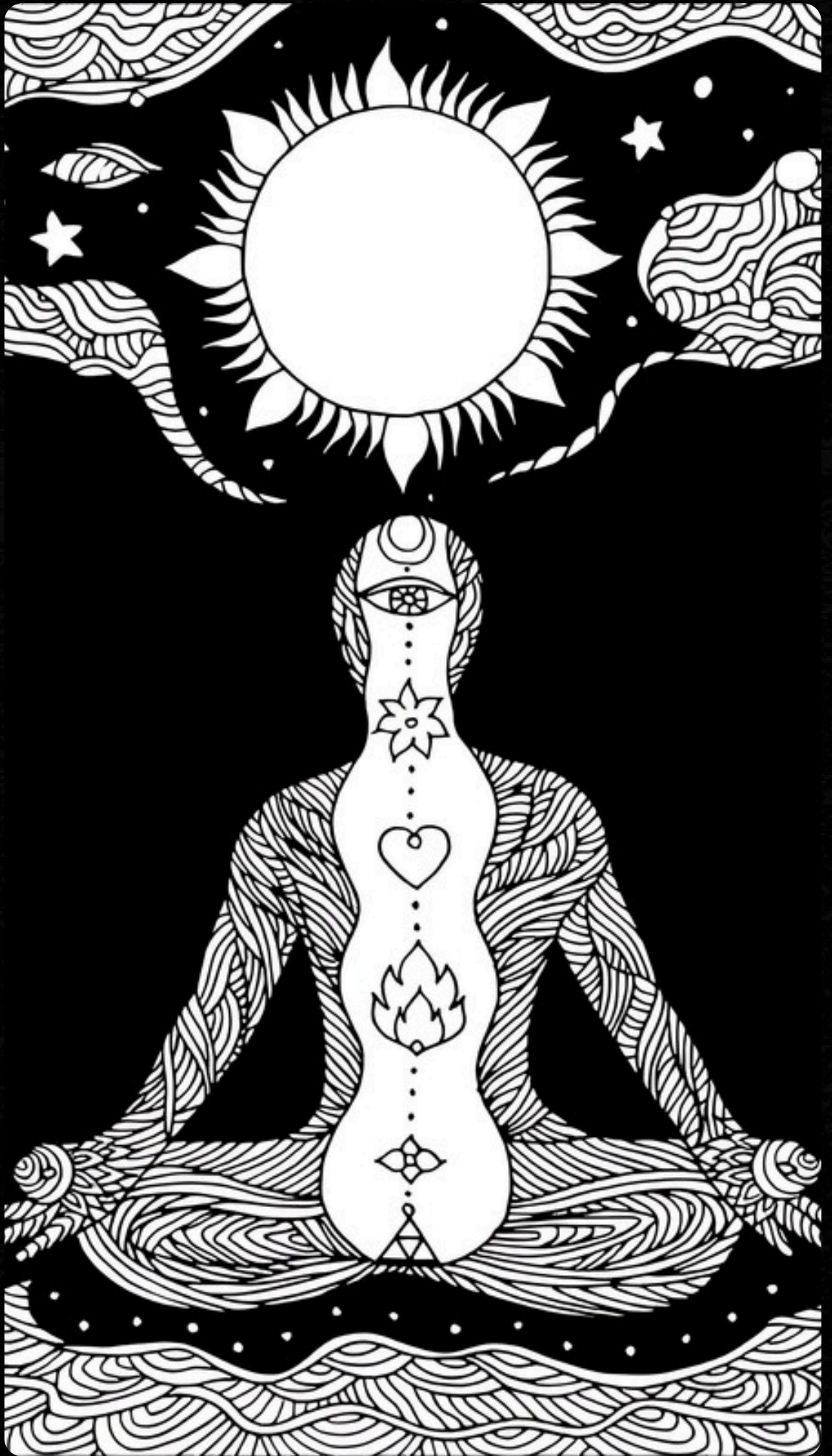
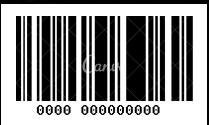
# TECHNODIA



MAY - JUNE 2024

**THE BI-MONTHLY NEWSLETTER**  
THE TECHNICAL MERAKI OF ARUNACHAL

VOL-VII ISS-3



## DIRECTOR'S MESSAGE

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Greetings!

It's my pleasure, our institute newsletter, Technodaya, Volume VII, Issue- 3 is published and brought to your notice. During the last two months (May–June, 2024), our faculty members and officers exemplary have contributed progresses of advancements in many academic, research and outreach activities standing out in bridging the gap between academia and society. My whole-hearted wishes and congratulations to all who are involved directly and indirectly in the achievements, some of which are Observation of International Yoga Day, Inauguration of NCC Office at Campus, Observation of International Day against Drug, World Environment Day Celebration, External Funded Projects and research papers in international and national journals.

Hope your contribution will enrich the contents furthermore.

With Best Wishes!



*Prof. Mohan V. Aware*

DIRECTOR  
NIT ARUNACHAL PRADESH



## EDITOR-IN-CHIEF'S MESSAGE

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I am experiencing great happiness to compose this issue of TECHNODAYA. I thank my editors Mr. Ashok. R, Research Scholar, Dept. of ME, Ms. Vanshika Marwaha, Mr. Rupom Nandi, Mr. Aaryan, Mr. Keshav Arora, and Mr. Omsubhra Singha, B.Tech NITAP for their design and suggestions. Special thanks to my colleagues for their valuable comments to make this edition more perfect. Further I invite all students, alumni, faculty members, officers, supporting staff and various stakeholders associated with NIT Arunachal Pradesh to support us and send news to [technodaya@nitap.ac.in](mailto:technodaya@nitap.ac.in) or [newsletternitap@gmail.com](mailto:newsletternitap@gmail.com).



*Dr. K. Vijayakumar*

ASSISTANT PROFESSOR  
DEPT. OF M&H

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## INSTITUTE ACTIVITIES

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### Celebration of the 10th International Day of Yoga

NIT Arunachal Pradesh organized Five Day Workshop on Yoga on the mark of the 10th International Day of Yoga from 17th June to 21st June 2024. Prof. Mohan V Aware Director, NITAP and Convenor Prof. Ram Prakash Sharma felicitated and trained the participants. The successful participants received participation certificates. Deans, faculty members and students participated.



*Photo: Celebration of 10th International Day of Yoga*

## INSTITUTE ACTIVITIES

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### Celebration of the World Environment Day

NIT Arunachal Pradesh organized Tree Plantation Drive at Jote Campus on World Environment Day on 5th June 2024 under theme of Land Restoration, Desertification & Drought Resilience, in this programme along with faculty and staffs our Director has planted 100 saplings in the campus. Deans, faculty members and students participated.



*Photo: Celebration of World Environment Day*

## RESEARCH & DEVELOPMENT

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### External Funded Projects

1. Mainak Mallik and Kartick Mondal received an external project titled "Lignin Valorization via biomaterial development, depolymerization and green technology". Funding Agency: Ministry of Science and Technology- Department of Biotechnology, 2024-05-22.
2. Dr. A. K. Atta, Associate Professor, Chemistry, NIT Jamshedpur as a Principal Investigator and Dr. Nabakumar Pramanik, Associate Professor, Chemistry, Department of Basic and Applied Science as a Co-Principal Investigator as Co-Principal Investigators received an external project titled "Design and synthesis of sugar-based water compatible fluorometric anion receptors: Cell imaging studies and DFT calculations, CSIR Sanction Reference: 02(0442)/21/EMR-II dated 09.06.2021". Funding Agency: CSIR, New Delhi , 2024-04-25.

### Research Papers

1. Lawerance, Jino.Kumar, Alagarsamy Vananv.Doley, Swapnali. Berlin, M.Jacob, Ashwin. (2024). Revolutionizing EV battery cooling: Innovative hybrid nanofluid solution in an inverted right-angled triangular porous cavities for enhanced thermal regulation via natural convection. Journal of Energy Storage, SCI, IF 9.4, 94, 112470. <https://doi.org/10.1016/j.est.2024.112470>
2. Varatharajan, K.Tamizharasi, R..Sankar, D. S., (2024). Linear and nonlinear stretching sheet for enhanced heat and mass transfer in Casson nanofluid with activation energy. Numerical Heat Transfer, Part A: Applications An International Journal of Computation and Methodology, Q1, IF-2.2, 85(14), 1-22. <https://doi.org/10.1080/10407782.2024.2357578>

## RESEARCH & DEVELOPMENT

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3. Dutta, Debjit.Pradhan, Debprasad. (2024). Propagation dynamics of nonlinear ion-acoustic waves in multi-species cometary plasma with kappa distributed electrons. Brazilian Journal of Physics (SCI Journal). Accepted for publication in the month of June, 2024
4. Mukherjee, KAUSHAL .Roy, SAHADEV. (2024). Comparison of 5G-IoT Antenna Performance by using Four Distinct Dielectric Materials to Verify their Efficiencies. International Journal of Communication Systems (SCI) 36, e5877. <https://doi.org/10.1002/dac.5877>
5. Singh Y, YAIPHABA. (2024). Efficient Strategies for Sustainable Construction and Demolition Waste Management: A Comprehensive Review. Scope 14(1), 1717-1739. <https://scope-journal.com/assets/uploads/doc/8ffd1-1717-1739.202410110.pdf>

### Conference Papers

- 1.Singh, M M. Bharatiya Knowledge System: Research for Resurgence (NEP 2020) [Paper presentation]. Two Day National Conference on Bharatiya Knowledge System, Manipur University, Imphal, from 2024-03-20 to 2024-03-21.

### Book Chapters

- 1.Lawrence, Jino. Rajadren, Kokila Vani. Doley, Swapnali. Kumar, Alagarsamy Vavav. Jacob, Ashwin. (2024). Nanoparticles: an overview. In Jeenat Aslam, Ruby Aslam, Chaudhery Mustansar Hussain (Eds.), Green Magnetic Nanoparticles (GMNPs) (pp. 3-21). Elsevier. <https://doi.org/10.1016/B978-0-443-21895-8.00001-1>

### Workshop/Conference/Seminar/FDP

- 1.5 Day Workshop on "Bhartiya Nyaya Sanhita 2023, Bharatiya Nagarik Suraksha Sanhita 2023 and Bharatiya Sakshya Adhinyam 2023 was organized by Dr.Moirangthem Momocha Singh as convenor, at NIT Arunachal Pradesh, from 2024-05-06 to 2024-05-10.



**FACULTY EMPOWERMENT PROGRAM**

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Faculty Participation

- 1.A Vanav Kumar, Associate Professor, Department of Basic and Applied Science attended FDP on "Prime Minister & Ministry of Agriculture & Farmers' Welfare sponsored Agriculture Scheme & Indian Agriculture Vision- 2050", organised by Gujarat Natural Farming Science University, Anand, Gujarat; GBPUAT, Pantnagar; Bihar Animal Sciences University, Patna; ICAR- Indian Institute of Rice Research, Hyderabad; ICAR-Indian Institute of Millets Research, Hyderabad; ICAR- Central Institute for Research on Goats, Mathura; ICAR- Indian Institute of Maize Research, Punjab; ICAR-Indian Institute of Wheat and Barley Research, Karnal; D. Y. Patil Agriculture and Technical University, Talsande & Hindustan Agricultural Research Welfare Society, from 2024-04-01 to 2024-04-30.
- 2.A. Vanav Kumar, Associate Professor, Department of Basic and Applied Science attended FDP on "High Performance Computing in Engineering Applications (HPCEA)", organised by National Institute of Technology, Warangal, from 2024-02-28 to 2024-03-03.
- 3.A. Vanav Kumar, Associate Professor, Department of Basic and Applied Science attended FDP on "AI in Cloud Computing: Theory, Practice and Applications ", organised by National Institute of Technology, Warangal, from 2024-04-15 to 2024-04-26.
- 4.Dr Moirangthem Momocha Singh, Associate Professor, Management and Humanities attended FDP on "Nurturing Future Leadership Program", organised by IIM Vishakhapatnam, from 2024-06-24 to 2024-06-28.
- 5.Dr. Moirangthem Momocha Singh, Associate Professor & Dean SW, Management and Humanities attended One day program on "Capacity Building for 'Promoting Positive Mental Health, Resilience and Wellbeing in HEIs' ", organised by MoE Gol, from 2024-05-01 to 2024-05-01.

## FACULTY EMPOWERMENT PROGRAM

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6. A. Vanav Kumar, Associate Professor, Department of Basic and Applied Science attended FDP on "Faculty development program on Quantum Computing", organised by BMS College of Engineering, Bangalore, from 2024-03-11 to 2024-03-15.

7. A. Vanav Kumar, Associate Professor, Department of Basic and Applied Science attended FDP on "Machine Learning and Deep Learning for Realtime IoT Applications", organised by National Institute of Technology, Jalandhar, from 2024-03-14 to 2024-03-18.

### Reviewers

1.A. Vanav Kumar, Associate Professor, Mathematics division, Department of Basic and Applied Science served as a Reviewer of "Mathematics". MDPI. 2024-06-17.

2.A. Vanav Kumar, Associate Professor, Mathematics division, Department of Basic and Applied Science served as a Reviewer of "Symmetry". MDPI. 2024-05-23.

## OUTREACH ACTIVITIES

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### International Day against Drug Abuse and Illicit Trafficking

NIT Arunachal Pradesh organized International Day against Drug Abuse and Illicit Trafficking on 26th June 2024 to create awareness among youths Theme: Evidence is clear invest in prevention. Dr. Nabam Dol, Dr. Koj Rinyo and Dr. Taba Noni felicitated the event as invited speakers.

## OUTREACH ACTIVITIES

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*Photo: International Day against Drug Abuse and Illicit Trafficking*

### Inauguration of NCC Office at NIT Arunachal Pradesh

The NCC Office at NIT Arunachal Pradesh was inaugurated by Col Roshan Verma the Commanding Officer of 1 AP Battalion NCC on 13 May 2024 in the presence of Honble Director of NIT Arunachal Pradesh, Associate NCC Officers, and NCC Cadets of NIT Arunachal Pradesh.



## OUTREACH ACTIVITIES

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*Photo: Inauguration of NCC Office at NIT Arunachal Pradesh*



## UP-COMING EVENTS

### Faculty Development Program (FDP)

Outcome-Based Education and Pedagogical Skills

at National Institute of Technology,

Arunachal Pradesh

In collaboration with

National Institute of Technical Teachers Training & Research,

Chandigarh

Tentative Date: 05th Aug to 9th Aug 2024

Venue: TEL Centre, Academic Block-II

<p><b>Coordination Team</b></p> <p><b>Patron</b> Prof. Mohan V. Aware Director, NITAP</p> <p><b>Convener</b> Dr. Karam Ratan Singh Dean, FW, NITAP</p> <p><b>Coordinator</b> Dr. K. Vijayakumar Assistant Professor Dept. of MH, NITAP</p> <p><b>Local Organizing Committee</b> Dr. Swarnendu Kumar Chakraborty Dean Academic</p> <p>Dr. Subhasish Banerjee Associate Dean Examination</p> <p>Dr. Utpal Kumar Saha HoD BAS</p> <p>Dr. Kimjolly Lhouvum HoD, BT</p> <p>Dr. Nabakumar Pramanik HoD, CHE</p> <p>Dr. Nabam Rich HoD, CE</p> <p>Dr. Rajat Subhra Goswami HoD, CSE</p> <p>Dr. Rajen Pudur HoD, EE</p> <p>Dr. Abir J Mondal HoD, ECE</p> <p>Prof. Mihir Kumar Shome HoD, MH</p> <p>Dr. Manjula Das Ghatak HoD, ME</p>	<p><b>Objectives:</b></p> <ol style="list-style-type: none"> <li>1.To Familiarize Faculty with NEP 2020 Concepts</li> <li>2.Enhancement of Pedagogical Skills and Integration of Industry Relevance.</li> <li>3.Hands-on Activities and Evaluation Techniques for NBA Preparation</li> </ol> <p><b>For Faculty Members of NIT Arunachal Pradesh</b></p> <p>Certificates will be provided</p> <p><b>Contact us</b></p> <p>Dr. K. Vijayakumar Assistant Professor Dept. of MH, NITAP (Coordinator) Mobile: 9485235476 Email: vijayakumar@nitap.ac.in</p>	<p><b>Faculty Development Program (FDP)</b></p> <p>on Outcome-Based Education and Pedagogical Skills</p> <p>at National Institute of Technology, Arunachal Pradesh</p> <p>In collaboration with</p> <p>National Institute of Technical Teachers Training &amp; Research, Chandigarh</p> <p>05. Aug to 09. Aug '24 TEL Centre, Academic Block-II</p>
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**UP-COMING EVENTS**

**Experts from NITTR, Chandigarh**

1. Prof. Maitreyee Dutta (MD)
2. Prof. S. S. Gill (SSG)
3. Dr. Meenakshi Sood (MS)
4. Dr. Balwinder Singh Dhaliwal (BSD)
5. Prof. P K Tulsi (PKT)

**Program Schedule:**

Date/Day	02:00-02:30 PM	02:30-03:30 PM	03:45 PM-05:15PM
05-08-2024 Monday	Registration & Inauguration (MD)	Systematic Approach to Instructional Design and Delivery (MD)	Outcome-Based Education (MD)
06-08-2024 Tuesday	Pedagogical Practices and Digital Tools for Teaching Learning (MD)		Design of Rubrics and Student Assessment and Evaluation (PKT)
07-08-2024 Wednesday	Formulation of COs, POs and Developing Articulation Matrix (MS/SSG)		CO-PO Attainment Calculation (BSD)
08-08-2024 Thursday	Overview of Accreditation and SAR (SSG)		Hands on practice for preparation of NBA (MS/BSD)
09-08-2024 Friday	Preparation for NBA (SSG/MS)		Feedback & Valedictory (SSG/MS/BSD))

This issue celebrates International Day of Yoga 2024 and marks the 10th International Day of Yoga with the theme "Yoga for Self and Society." Yoga, a transformative practice, represents the harmony of mind and body, the balance between thought and action, and the unity of restraint and fulfillment. It integrates the body, mind, spirit, and soul, offering a holistic approach to health and well-being that brings peace to our hectic lives. Its power to transform is what we celebrate on this special day.

# BENEFITS OF YOGA

Harvard  Provided by:  
Harvard Health Publications

# Yoga

Health benefits  
beyond the mat

### Better Body Image

Focusing inward during yoga helps you be more satisfied with your body and less critical of it.

### Mindful Eating

Being more aware of how your body feels carries over to mealtimes as you savor each bite or sip and notice how food smells, tastes, and feels in your mouth.

### Heart Benefits

Yoga can help lower blood pressure, cholesterol, and blood sugar, all of which are good for your heart and blood vessels.

### Weight Control

Mindfulness developed through yoga can make you more sensitive to cues of hunger and fullness, which help you develop a more positive relationship with food.

### Overall Fitness

Practicing yoga a couple times a week increases muscle strength and flexibility, boosts endurance, and tunes up your heart, lungs, and blood vessels.

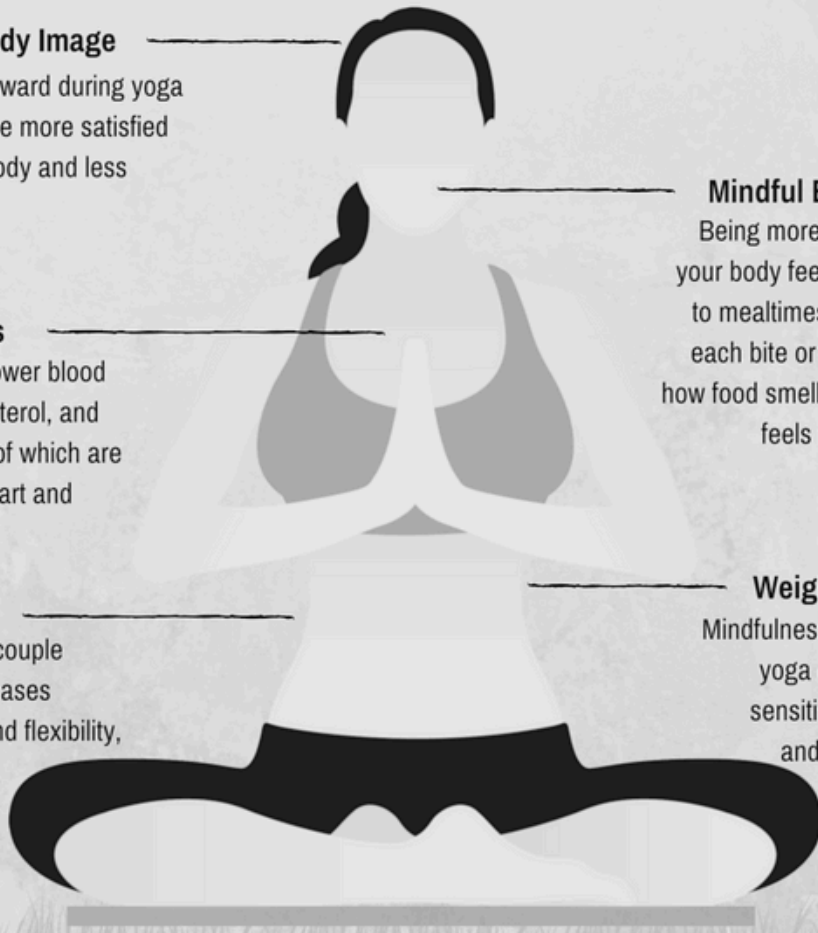


Photo: Benefits of Yoga, PC to HHP

